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# RESIDENTIAL NATURAL GAS MARKET SURVEY

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# Residential Natural Gas Market

## Survey: 1991

44th Annual Survey
Natural Gas Utility Industry
United States

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# INTRODUCTION

This year's report is the 44th annual Residential Natural Gas Market Survey conducted by the American Gas Association. The data collected for 1991 provide a unique and comprehensive portrait of the residential natural gas market. Detailed information is presented by state and region, including customers, market share, inventory additions from new homes, and conversions from alternative fuels. **Company-specific data are reported in Appendices 1 and 2.**

A total of 146 natural gas utility companies responded to this year's survey. The response rate is up slightly from the prior year. The respondent companies represented the vast majority of the nation's residential natural gas customers, i.e., some 89 percent in 1991. The information provided by these utilities was expanded to obtain the state and national customer totals shown in Table 4. Individual company data are listed by region and state in Appendices 1 and 2. Please note that some tabular data may not add to totals due to rounding.

Our thanks go to those companies participating in the 1991 Residential Natural Gas Market Survey information gathering effort. Their cooperation and support are the essential elements that have made this publication a primary source of natural gas utility industry data, and an important industry reference.

Credits also goes to Director, Statistical Services Ellen Hahn, Project Statisticians Carole Hopkins and Vanessa Chu, and Supply and Statistics Secretary Lisa Ramey. Also contributing to the effort were Bob Kalisch--Senior Director, Gas Supply and Statistics and Nelson Hay--Staff Vice President, Policy and Analysis Group.

# I. Executive Summary

•The residential natural gas customer count exceeded 51 million in 1991, a 1.9 percent increase from 1990. Consistent with the 1990 survey, over 88 percent of these natural gas customers use natural gas for house heating purposes.

•Total conversions of existing units from other fuels to natural gas househeating were over 261,700 in 1991, up 19.5 percent from last year's level. Based on A.G.A. survey data, 122,500 or 47 percent of all heating conversions were from fuel oil to natural gas, 68,000 (26%) were from electricity, 42,200 (16%) from LPG, and 29,000 (11%) from "other fuels" (coal, wood, and non-classified).

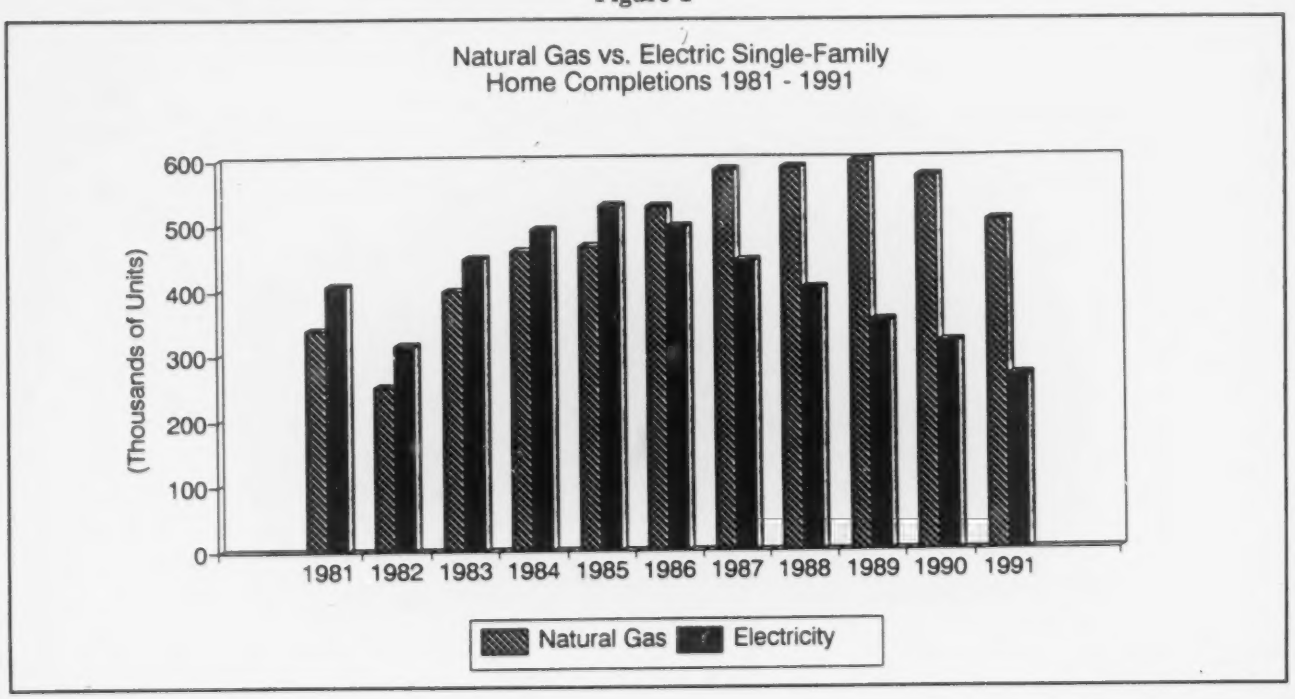
•Compared with 1990, the largest gains in conversions were in the West North Central and the Pacific regions. The largest gain was in conversions from propane heating, which increased by 68 percent over 1990.

•Total new housing completions (both single and multi-family) declined from 1.31 million units in 1990 to 1.09 million units in 1991 or 16.8 percent. However, the natural gas share of the new housing market increased. New natural gas single-family homes completed registered a 60 percent market share, up from 59 percent in 1990. For the sixth consecutive year natural gas heated single-family home completions showed a greater market share than electricity. When both single-family and multi-family units are considered, the natural gas share of new housing completions increased to 56 percent in 1991 from 55 percent in 1990. The overall electric share dropped to 37 percent from 38 percent.

•Total natural gas househeating unit additions from new construction numbered 603,485 in 1991, a 12.9 percent decrease from 1990. This decline is consistent with the drop in single and multi-family housing completions in 1991 compared with 1990. The addition of new natural gas househeating units from conversion in 1991 increased 19.5 percent from 1990, topping 261,700 units. Total additions from both new constructions and conversions was 865,572 in 1991, a 5.1 percent decline from 1990.

•The annual natural gas househeating bill for a single-family home increased in 1991 by 5.9 percent from $376 to $398. This is due to colder weather in the first and fourth quarters of 1991 compared with 1990. Changes ranged from a 15.8 percent decline in the Mountain division to a 23.8 percent increase in the West South Central (where weather was 18 percent colder than in 1990).

**Figure 1**



## II. United States Housing Market In 1991

### New Housing Completions

Total new housing units completed for all fuels in 1991 were 1,092,000, a 16.4 percent decline from 1990. Given this continued decline in the housing market, the performance of natural gas in 1991 was favorable.

New natural gas single-family completions declined to 505,000 in 1991 from 572,000 in 1990 according to the U.S. Census Bureau (See Table 1). This 11.7 percent decrease is slightly lower than the 13.2 percent decrease in all single-family home completions resulting in an increased natural gas market share of 60 percent in 1991. The 1991 electric market share decreased to 32 percent, down from 33 percent in 1990. Natural gas single-family home completions have exceeded electric completions for the sixth consecutive year.

In the multi-family housing arena natural gas showed a three percentage point decline in market share, falling from 44 percent in 1990 to 41 percent in 1991. At the same time, electric market share increased from 53 percent to 55 percent and "other fuels" market share rose from 2 percent to 4 percent. Both electricity and natural gas showed an absolute decline in the number of multi-family units completed in 1991 compared with 1990. Natural gas multi-family units completed fell 47,000 while electric multi-family units completed dropped 43,000. For 1991, 103,000 multi-family units were completed using natural gas as a heating fuel.

When both single- and multi-family units are considered, natural gas market househeating share of new housing increased from 55 percent in 1990 to 56 percent in 1991. Electric househeating market share dropped a percentage point to 37 percent in 1991.

Table 1 presents the regional breakdown ofunits completed by type of fuel. Natural gas single-family home completions outnumbered electric completions in all regions but the South. However the difference between the two continues to diminish. The difference between electric and natural gas completions in the South for 1991 was 33,000 units, compared with a spread of 59,000 in 1990 and 94,000 in 1989. Also of note is an increase of natural gas market share in the Northeast. Natural gas market share increased six percentage points compared with 1990, while electric market share fell two percentage points and oil market share dropped three percentage points. In the multi-family sector, natural gas completions were higher than electric completions in the Northeast and Midwest regions. There was a notable decline in both number of completions and market share in the West region. Natural gas in the South, however, increased market share by seven percentage points rising from 16 percent in 1990 to 23 percent in 1991.

Table 2 shows new housing market share data from 1980-1991. The overall new housing market share of natural gas and electricity has reversed itself from 37 percent natural gas and 56 percent electricity in 1980 to 56 percent natural gas and 37 percent electricity in 1991.

**Figure 2**

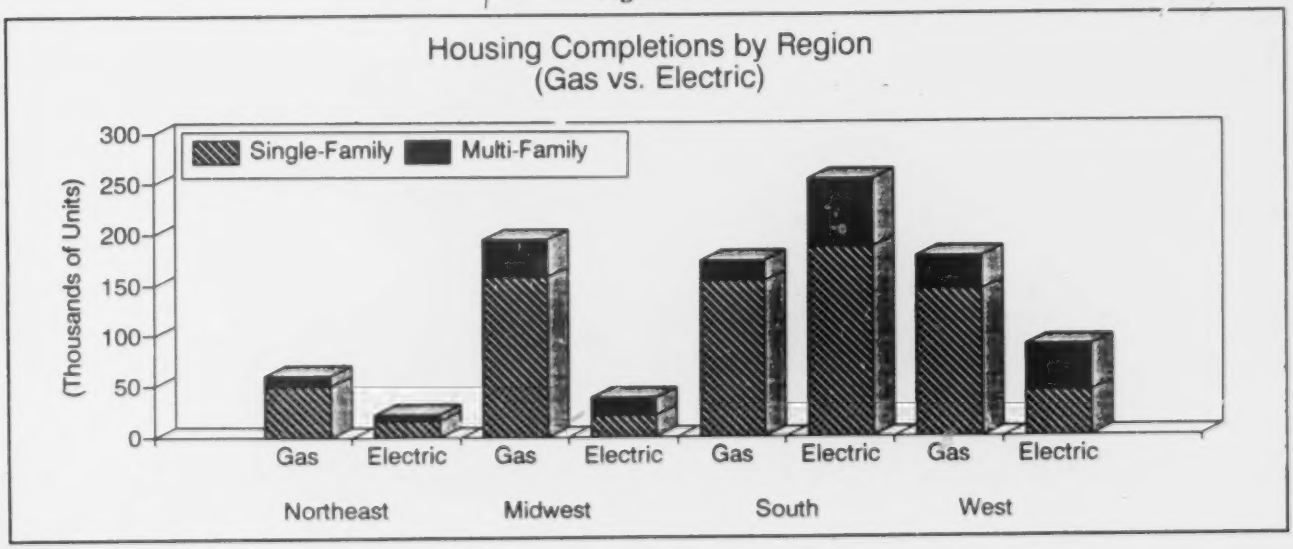


**Figure 3**

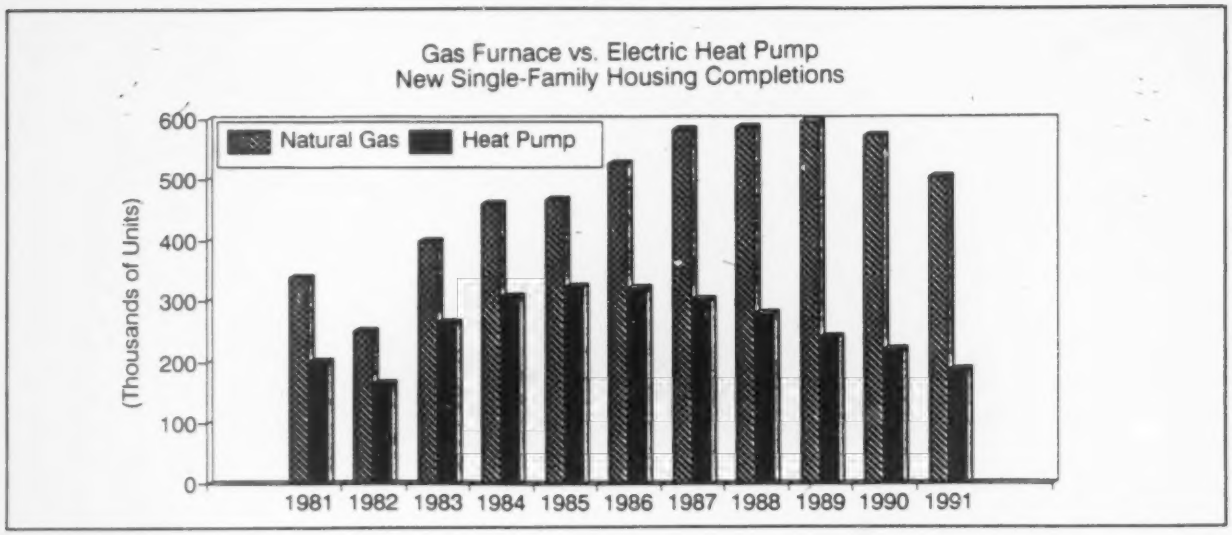



**Table 1**

**1991 PRIVATE HOUSING COMPLETIONS - BY HEATING FUEL**

(Thousands of Units)

| | | | | | | |
|---|---|---|---|---|---|---|
| **Single-Family** | Share | Units | Northeast | Midwest | South | West |
| Natural Gas[a] | 60% | 505 | 50 | 158 | 153 | 144 |
| Electricity | 32% | 267 | 16 | 21 | 186 | 44 |
| Oil | 4% | 37 | 32 | B | B | B |
| Other | 4% | 29 | B | 4 | 8 | 16 |
| Subtotal | 100% | 838 | 100 | 185 | 348 | 205 |
| **Multi-Family** | | | | | | |
| Natural Gas[a] | 41% | 103 | 11 | 37 | 21 | 34 |
| Electricity | 55% | 139 | 7 | 18 | 68 | 46 |
| Oil | 1% | 3 | Z | Z | Z | Z |
| Other | 4% | 9 | Z | Z | S | 6 |
| Subtotal | 100% | 253 | 21 | 55 | 91 | 87 |
| **Combined** | | | | | | |
| Natural Gas[a] | 56% | 608 | 61 | 195 | 174 | 178 |
| Electricity | 37% | 406 | 23 | 39 | 254 | 90 |
| Oil | 4% | 40 | 32 | Z | Z | Z |
| Other | 3% | 38 | Z | 4 | 8 | 22 |
| **Total** | 100% | 1,092 | 121 | 240 | 439 | 291 |

[a]Includes liquefied petroleum gas. B = Insufficient sample size

Z = less than 500 units. S = did not meet publication standards

Source: U.S. Bureau of the Census, Characteristics of New Housing: 1991, July 1992.

Table 2

MARKET SHARE OF PRIVATE HOUSING COMPLETIONS BY HEATING FUEL
1980-1991

| Single-Family | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 |
|---|---|---|---|---|---|---|---|---|
| Natural Gas[a] | 41% | 43% | 47% | 52% | 54% | 58% | 59% | 60% |
| Electricity | 50 | 49 | 44 | 40 | 37 | 34 | 33 | 32 |
| Oil | 3 | 3 | 5 | 5 | 6 | 5 | 5 | 4 |
| Other | 5 | 4 | 4 | 3 | 3 | 3 | 3 | 4 |
| **Multi-Family** | | | | | | | | |
| Natural Gas[a] | 30% | 31% | 35% | 41% | 44% | 42% | 44% | 41% |
| Electricity | 66 | 67 | 63 | 56 | 53 | 54 | 53 | 55 |
| Oil | 2 | 1 | 1 | 1 | 4 | 5 | 1 | 1 |
| Other | 1 | 1 | 1 | 2 | 7 | 11 | 2 | 4 |
| **Combined** | | | | | | | | |
| Natural Gas[a] | 37% | 39% | 43% | 48% | 51% | 53% | 55% | 56% |
| Electricity | 56 | 56 | 51 | 45 | 42 | 40 | 38 | 37 |
| Oil | 3 | 2 | 3 | 4 | 4 | 4 | 4 | 4 |
| Other | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

[a]Includes liquefied petroleum gas

Source: U.S. Bureau of the Census, Characteristics of Housing: 1991, July 1992.

**Existing Housing**

According to the 1990 Census data, 56.7 percent of existing homes use gas (both natural and liquefied petroleum) for househeating purposes (see Table 3). Gas holds the largest market share in the historically cold region of the East North Central and the lowest market share in the warmer South Atlantic division. The only divisions where natural gas does not have the largest market share is in New England, where fuel oil and kerosene heat more homes, and in the South Atlantic where electricity has a higher market share.

TABLE 3

1990 HOUSE HEATING FUEL MARKET SHARE (PERCENT USING)

| Region, Division and State | NATURAL AND LP GAS | NATURAL GAS ONLY | ELECTRICITY | FUEL OIL/ KEROSENE | COAL OR COKE | WOOD | SOLAR ENERGY | OTHER FUEL | NO FUEL USED | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| TOTAL US | 56.7 | 51.0 | 25.8 | 12.2 | 0.4 | 3.9 | 0.1 | 0.4 | 0.6 | 100.0 |
| NORTHEAST | 46.2 | 43.9 | 11.4 | 38.2 | 0.9 | 2.4 | 0.0 | 0.6 | 0.3 | 100.0 |
| NEW ENGLAND | 31.4 | 28.7 | 13.0 | 50.6 | 0.4 | 4.0 | 0.0 | 0.3 | 0.2 | 100.0 |
| CONNECTICUT | 28.2 | 26.3 | 15.1 | 54.4 | 0.3 | 1.6 | 0.0 | 0.2 | 0.2 | 100.0 |
| MAINE | 3.7 | 1.8 | 11.7 | 69.5 | 0.7 | 14.1 | 0.1 | 0.2 | 0.1 | 100.0 |
| MASSACHUSETTS | 40.1 | 38.0 | 13.5 | 44.0 | 0.3 | 1.5 | 0.0 | 0.3 | 0.3 | 100.0 |
| NEW HAMPSHIRE | 21.3 | 15.2 | 12.4 | 55.8 | 0.9 | 9.0 | 0.1 | 0.3 | 0.2 | 100.0 |
| RHODE ISLAND | 43.0 | 40.7 | 7.9 | 47.0 | 0.2 | 1.4 | 0.0 | 0.2 | 0.1 | 100.0 |
| VERMONT | 18.5 | 8.0 | 9.1 | 54.3 | 0.7 | 17.0 | 0.1 | 0.2 | 0.2 | 100.0 |
| MIDDLE ATLANTIC | 51.4 | 49.3 | 10.9 | 33.7 | 1.1 | 1.9 | 0.0 | 0.7 | 0.4 | 100.0 |
| NEW JERSEY | 59.4 | 57.5 | 10.0 | 29.2 | 0.1 | 0.5 | 0.0 | 0.4 | 0.3 | 100.0 |
| NEW YORK | 48.1 | 45.7 | 8.5 | 39.6 | 0.2 | 2.0 | 0.0 | 1.0 | 0.5 | 100.0 |
| PENNSYLVANIA | 51.2 | 49.5 | 14.8 | 27.9 | 2.9 | 2.6 | 0.0 | 0.4 | 0.2 | 100.0 |
| MIDWEST | 76.5 | 69.3 | 12.8 | 6.2 | 0.1 | 3.5 | 0.0 | 0.6 | 0.3 | 100.0 |
| EAST NORTH CENTRAL | 77.2 | 71.9 | 12.2 | 6.5 | 0.2 | 3.0 | 0.0 | 0.6 | 0.3 | 100.0 |
| ILLINOIS | 84.6 | 80.3 | 11.2 | 1.8 | 0.1 | 1.0 | 0.0 | 0.7 | 0.5 | 100.0 |
| INDIANA | 69.6 | 63.1 | 19.3 | 6.2 | 0.2 | 4.2 | 0.0 | 0.4 | 0.2 | 100.0 |
| MICHIGAN | 83.0 | 76.9 | 5.4 | 6.9 | 0.1 | 3.9 | 0.0 | 0.5 | 0.2 | 100.0 |
| OHIO | 72.0 | 68.2 | 16.8 | 7.5 | 0.4 | 2.5 | 0.0 | 0.7 | 0.2 | 100.0 |
| WISCONSIN | 69.4 | 61.0 | 9.3 | 14.6 | 0.0 | 5.9 | 0.0 | 0.6 | 0.2 | 100.0 |
| WEST NORTH CENTRAL | 74.8 | 63.5 | 14.0 | 5.6 | 0.1 | 4.7 | 0.0 | 0.6 | 0.2 | 100.0 |
| IOWA | 80.4 | 65.6 | 10.5 | 5.5 | 0.0 | 2.9 | 0.0 | 0.5 | 0.2 | 100.0 |
| KANSAS | 84.7 | 75.9 | 11.8 | 0.3 | 0.0 | 2.9 | 0.1 | 0.2 | 0.1 | 100.0 |
| MINNESOTA | 71.1 | 62.9 | 10.5 | 11.9 | 0.1 | 4.9 | 0.0 | 1.2 | 0.5 | 100.0 |
| MISSOURI | 72.4 | 60.4 | 18.1 | 1.5 | 0.0 | 7.6 | 0.0 | 0.2 | 0.1 | 100.0 |
| NEBRASKA | 81.2 | 70.2 | 13.6 | 2.5 | 0.0 | 2.1 | 0.0 | 0.5 | 0.1 | 100.0 |
| NORTH DAKOTA | 53.7 | 39.7 | 26.2 | 15.7 | 1.7 | 1.2 | 0.0 | 0.9 | 0.6 | 100.0 |
| SOUTH DAKOTA | 63.0 | 43.0 | 17.8 | 13.6 | 0.2 | 4.2 | 0.0 | 0.8 | 0.4 | 100.0 |
| SOUTH | 45.1 | 37.0 | 42.8 | 6.9 | 0.4 | 4.3 | 0.0 | 0.2 | 0.4 | 100.0 |
| SOUTH ATLANTIC | 33.9 | 26.8 | 48.8 | 12.2 | 0.3 | 4.0 | 0.1 | 0.2 | 0.6 | 100.0 |
| DELAWARE | 37.3 | 30.5 | 21.8 | 38.5 | 0.2 | 1.7 | 0.0 | 0.2 | 0.2 | 100.0 |
| DISTRICT OF COLUMBIA | 65.5 | 63.5 | 20.5 | 12.5 | 0.0 | 0.0 | 0.1 | 0.6 | 0.8 | 100.0 |
| FLORIDA | 14.7 | 7.5 | 78.8 | 4.1 | 0.0 | 0.8 | 0.1 | 0.1 | 1.5 | 100.0 |
| GEORGIA | 67.1 | 53.3 | 27.2 | 1.5 | 0.0 | 3.8 | 0.0 | 0.1 | 0.2 | 100.0 |
| MARYLAND | 45.4 | 43.2 | 29.6 | 22.1 | 0.3 | 1.9 | 0.0 | 0.3 | 0.3 | 100.0 |
| NORTH CAROLINA | 27.1 | 18.6 | 42.0 | 22.5 | 0.1 | 7.8 | 0.1 | 0.2 | 0.2 | 100.0 |
| SOUTH CAROLINA | 33.8 | 24.6 | 46.9 | 13.2 | 0.1 | 5.7 | 0.0 | 0.1 | 0.2 | 100.0 |
| VIRGINIA | 31.5 | 28.9 | 40.1 | 20.2 | 0.8 | 6.7 | 0.0 | 0.3 | 0.3 | 100.0 |
| WEST VIRGINIA | 53.5 | 50.7 | 25.3 | 7.8 | 4.0 | 9.0 | 0.0 | 0.3 | 0.1 | 100.0 |
| EAST SOUTH CENTRAL | 50.0 | 39.0 | 38.1 | 2.8 | 1.2 | 7.6 | 0.0 | 0.2 | 0.1 | 100.0 |
| ALABAMA | 58.4 | 42.8 | 34.6 | 1.2 | 0.3 | 5.3 | 0.0 | 0.1 | 0.1 | 100.0 |
| KENTUCKY | 53.3 | 45.6 | 30.0 | 4.8 | 3.2 | 8.2 | 0.0 | 0.3 | 0.2 | 100.0 |
| MISSISSIPPI | 60.9 | 40.8 | 30.6 | 0.5 | 0.0 | 7.8 | 0.0 | 0.1 | 0.1 | 100.0 |
| TENNESSEE | 35.5 | 30.0 | 50.5 | 3.8 | 0.9 | 9.0 | 0.0 | 0.1 | 0.1 | 100.0 |
| WEST SOUTH CENTRAL | 61.2 | 53.1 | 35.5 | 0.2 | 0.0 | 2.8 | 0.0 | 0.1 | 0.2 | 100.0 |
| ARKANSAS | 64.4 | 52.8 | 22.7 | 0.2 | 0.0 | 12.5 | 0.0 | 0.1 | 0.1 | 100.0 |
| LOUISIANA | 60.9 | 55.1 | 36.2 | 0.3 | 0.0 | 2.3 | 0.0 | 0.1 | 0.2 | 100.0 |
| OKLAHOMA | 74.4 | 64.4 | 20.5 | 0.1 | 0.0 | 4.7 | 0.0 | 0.2 | 0.1 | 100.0 |
| TEXAS | 58.2 | 50.4 | 40.2 | 0.1 | 0.0 | 1.2 | 0.0 | 0.1 | 0.2 | 100.0 |
| WEST | 63.3 | 59.8 | 26.7 | 2.5 | 0.2 | 5.3 | 0.2 | 0.3 | 1.6 | 100.0 |
| MOUNTAIN | 64.0 | 58.5 | 27.4 | 1.5 | 0.5 | 5.7 | 0.2 | 0.4 | 0.2 | 100.0 |
| ARIZONA | 44.0 | 39.5 | 51.4 | 0.2 | 0.2 | 3.6 | 0.1 | 0.1 | 0.4 | 100.0 |
| COLORADO | 81.8 | 77.0 | 12.9 | 0.3 | 0.4 | 3.3 | 0.3 | 0.7 | 0.3 | 100.0 |
| IDAHO | 31.5 | 28.2 | 39.8 | 9.0 | 1.3 | 18.0 | 0.1 | 0.5 | 0.1 | 100.0 |
| MONTANA | 61.7 | 54.2 | 17.9 | 4.1 | 0.8 | 14.7 | 0.1 | 0.5 | 0.1 | 100.0 |
| NEVADA | 53.7 | 47.7 | 39.3 | 3.7 | 0.1 | 2.6 | 0.1 | 0.3 | 0.2 | 100.0 |
| NEW MEXICO | 82.0 | 70.1 | 9.1 | 0.3 | 0.2 | 7.6 | 0.6 | 0.2 | 0.1 | 100.0 |
| UTAH | 84.2 | 81.9 | 9.5 | 1.3 | 1.3 | 3.2 | 0.1 | 0.2 | 0.1 | 100.0 |
| WYOMING | 72.0 | 62.9 | 16.5 | 0.7 | 2.2 | 7.9 | 0.2 | 0.4 | 0.2 | 100.0 |
| PACIFIC | 63.0 | 60.3 | 26.5 | 2.9 | 0.0 | 5.2 | 0.1 | 0.3 | 2.0 | 100.0 |
| ALASKA | 44.7 | 42.8 | 11.8 | 32.3 | 1.7 | 7.7 | 0.0 | 1.3 | 0.5 | 100.0 |
| CALIFORNIA | 76.3 | 73.2 | 19.2 | 0.3 | 0.0 | 3.1 | 0.1 | 0.2 | 0.8 | 100.0 |
| HAWAII | 5.3 | 3.3 | 37.9 | 0.2 | 0.0 | 0.5 | 1.6 | 0.0 | 54.5 | 100.0 |
| OREGON | 26.2 | 24.7 | 44.6 | 11.4 | 0.0 | 16.9 | 0.1 | 0.6 | 0.2 | 100.0 |
| WASHINGTON | 23.6 | 22.4 | 55.1 | 9.9 | 0.1 | 10.6 | 0.0 | 0.5 | 0.2 | 100.0 |

Source: U.S. Bureau of the Census

## III. Residential Natural Gas Customers in 1991

### Total Residential Customers

The total number of residential natural gas customers topped 51 million in 1991, a 1.9 percent increase over 1990 (see Table 4). The Pacific and East North Central divisions registered the highest increases where the residential customer counts rose 4.4 percent and 3.0 percent, respectively.

Most utilities define a customer as a single meter. The number is expanded based on the sample of companies responding to the survey to reflect the universe of customers.

The responding companies anticipate that the number of total residential natural gas customers will increase 1.6 percent in 1992, a slightly lower increase than experienced in 1991.

In 1991, a question was added to the survey asking for the number of residential customers buying their gas via transportation arrangements. The participating companies reported a total of 17,759 residential transportation customers in 1991 and are anticipating an increase of 24.8 percent to 22,163 residential transportation customers in 1992.

### Househeating Customers

About 45 million customers, 88.1 percent of all 1991 residential natural gas customers, were househeating customers. This represents a 2.1 percent increase from 1990. In 1992, the number of househeating customers is expected to increase by 1.2 percent from 1991.

### Natural Gas Househeating Unit Additions

The natural gas industry added 865,572 househeating units in 1991, a 5.1 percent decrease from 1990. Of total additions, 603,845 were from new housing, a decline from 1990 but consistent with the decline in new housing completions reported by the U.S. Bureau of the Census. The remaining 261,727 were added from conversions of existing households to natural gas heat.

Figure 4 shows the relative proportion of new househeating unit additions for each of the nine census divisions in 1991. The unit additions are actual totals, not expanded to reflect the entire potential market. The figure shows how conversions play a larger relative role in New England and the Middle Atlantic. New additions also play a relatively large role in the Pacific region, reflecting population growth, and in the East North Central and West South Central regions.

**Figure 4**

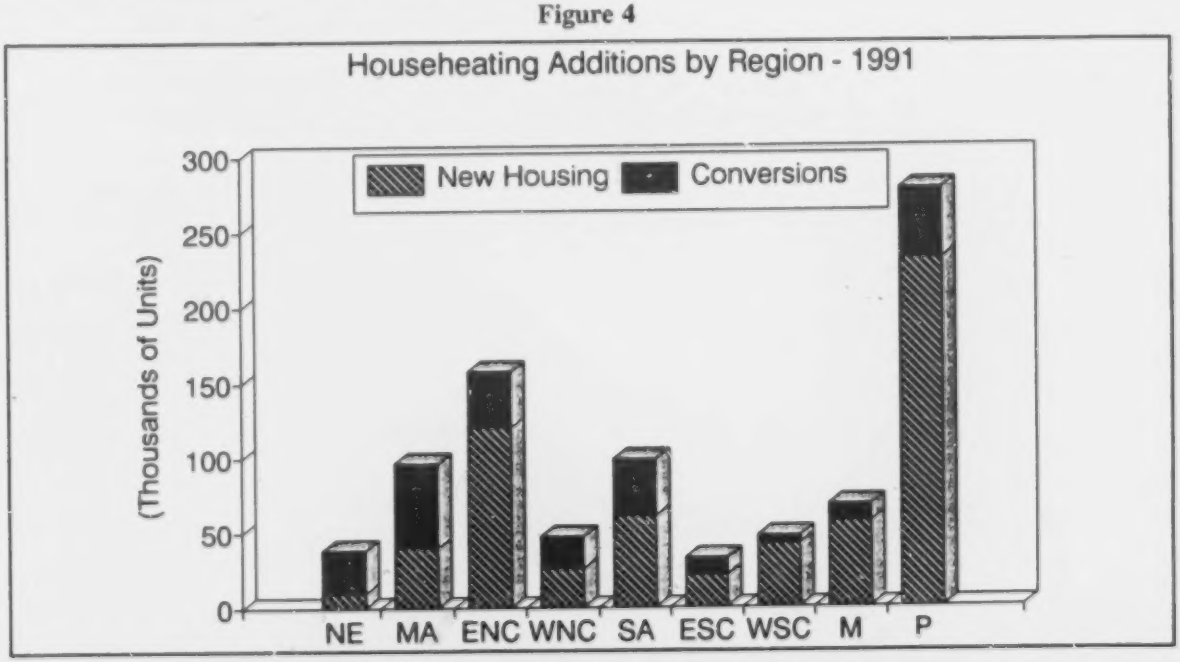


TABLE 4
CUSTOMERS AND UNIT ADDITIONS
(as of December 31, 1991)

| Region, Division and State | CUSTOMERS | | | UNIT ADDITIONS | | | | |
|---|---|---|---|---|---|---|---|---|
| | TOTAL | HOUSE HEATING | PERCENT HEATING | TOTAL (100%) | NEW HOUSING NUMBER | (%) | CONVERSIONS NUMBER | (%) |
| UNITED STATES | 51,096,977 | 45,034,554 | 88.1% | 865,572 | 603,845 | 69.8% | 261,727 | 30.2% |
| NORTHEAST | 10,277,790 | 7,775,810 | 75.7% | 134,893 | 48,360 | 35.9% | 86,533 | 64.1% |
| NEW ENGLAND | 1,893,946 | 1,389,694 | 73.4% | 38,174 | 9,106 | 23.9% | 29,068 | 76.1% |
| CONNECTICUT | 439,919 | 314,807 | 71.6% | 7,728 | 2,473 | 32.0% | 5,255 | 68.0% |
| MAINE | 12,650 | 6,720 | 53.1% | 1,100 | 25 | 2.3% | 1,075 | 97.7% |
| MASSACHUSETTS | 1,141,689 | 850,550 | 74.5% | 25,932 | 5,980 | 23.1% | 19,952 | 76.9% |
| NEW HAMPSHIRE | 75,515 | 67,142 | 88.9% | 2,004 | 415 | 20.7% | 1,589 | 79.3% |
| RHODE ISLAND | 201,517 | 129,724 | 64.4% | 627 | 85 | 13.6% | 542 | 86.4% |
| VERMONT | 22,656 | 20,751 | 91.6% | 783 | 128 | 16.3% | 655 | 83.7% |
| MIDDLE ATLANTIC | 8,383,844 | 6,386,116 | 76.2% | 96,719 | 39,254 | 40.6% | 57,465 | 59.4% |
| NEW JERSEY | 2,023,540 | 1,461,729 | 72.2% | 29,867 | 10,365 | 34.7% | 19,502 | 65.3% |
| NEW YORK | 3,975,166 | 2,868,520 | 72.2% | 41,556 | 15,434 | 37.1% | 26,122 | 62.9% |
| PENNSYLVANIA | 2,385,138 | 2,055,867 | 86.2% | 25,296 | 13,455 | 53.2% | 11,841 | 46.8% |
| MIDWEST | 15,682,239 | 14,716,471 | 93.8% | 204,817 | 145,557 | 71.1% | 59,260 | 28.9% |
| EAST NORTH CENTRAL | 11,335,943 | 10,654,766 | 94.0% | 157,907 | 120,302 | 76.2% | 37,605 | 23.8% |
| ILLINOIS | 3,348,067 | 2,947,685 | 88.0% | 44,647 | 41,522 | 93.0% | 3,125 | 7.0% |
| INDIANA | 1,353,351 | 1,319,315 | 97.5% | 12,965 | 2,666 | 20.6% | 10,299 | 79.4% |
| MICHIGAN | 2,643,266 | 2,515,873 | 95.2% | 41,073 | 32,892 | 80.1% | 8,181 | 19.9% |
| OHIO | 2,835,886 | 2,788,343 | 98.3% | 37,210 | 28,096 | 75.5% | 9,114 | 24.5% |
| WISCONSIN | 1,155,373 | 1,083,550 | 93.8% | 22,012 | 15,126 | 68.7% | 6,886 | 31.3% |
| WEST NORTH CENTRAL | 4,346,296 | 4,061,705 | 93.5% | 46,910 | 25,255 | 53.8% | 21,655 | 46.2% |
| IOWA | 724,454 | 704,819 | 97.3% | 5,679 | 2,774 | 48.8% | 2,905 | 51.2% |
| KANSAS | 760,324 | 750,546 | 98.7% | 7,101 | 2,103 | 29.6% | 4,998 | 70.4% |
| MINNESOTA | 995,330 | 969,855 | 97.4% | 13,250 | 7,932 | 59.9% | 5,318 | 40.1% |
| MISSOURI | 1,237,442 | 1,030,532 | 83.3% | 11,991 | 5,539 | 46.2% | 6,452 | 53.8% |
| NEBRASKA | 433,884 | 422,404 | 97.4% | 4,642 | 3,801 | 81.9% | 841 | 18.1% |
| NORTH DAKOTA | 87,713 | 84,205 | 96.0% | 1,507 | 1,295 | 85.9% | 212 | 14.1% |
| SOUTH DAKOTA | 107,149 | 99,344 | 92.7% | 2,740 | 1,811 | 66.1% | 929 | 33.9% |
| SOUTH | 12,564,435 | 11,097,390 | 88.3% | 179,357 | 122,619 | 68.4% | 56,738 | 31.6% |
| SOUTH ATLANTIC | 4,720,461 | 3,804,254 | 80.6% | 99,217 | 60,410 | 60.9% | 38,807 | 39.1% |
| DELAWARE | 97,772 | 72,050 | 73.7% | 787 | 631 | 80.2% | 156 | 19.8% |
| DISTRICT OF COLUMBIA | 135,097 | 109,793 | 81.3% | 1,750 | 1,450 | 82.9% | 300 | 17.1% |
| FLORIDA | 456,913 | 244,785 | 53.6% | 5,377 | 472 | 8.8% | 4,905 | 91.2% |
| GEORGIA | 1,320,418 | 1,204,018 | 91.2% | 24,755 | 20,000 | 80.8% | 4,755 | 19.2% |
| MARYLAND | 781,705 | 646,200 | 82.7% | 10,867 | 7,348 | 67.6% | 3,519 | 32.4% |
| NORTH CAROLINA | 574,951 | 342,129 | 59.5% | 30,224 | 13,121 | 43.4% | 17,103 | 56.6% |
| SOUTH CAROLINA | 350,734 | 240,225 | 68.5% | 6,561 | 2,962 | 45.1% | 3,599 | 54.9% |
| VIRGINIA | 625,740 | 571,005 | 91.3% | 18,206 | 13,827 | 75.9% | 4,379 | 24.1% |
| WEST VIRGINIA | 377,131 | 374,049 | 99.2% | 690 | 599 | 86.8% | 91 | 13.2% |
| EAST SOUTH CENTRAL | 2,323,465 | 2,256,264 | 97.1% | 32,615 | 20,367 | 62.4% | 12,248 | 37.6% |
| ALABAMA | 696,570 | 673,312 | 96.7% | 7,229 | 4,538 | 62.8% | 2,691 | 37.2% |
| KENTUCKY | 632,461 | 598,546 | 94.6% | 5,348 | 3,846 | 71.9% | 1,502 | 28.1% |
| MISSISSIPPI | 392,798 | 392,727 | 100.0% | 4,787 | 3,078 | 64.3% | 1,709 | 35.7% |
| TENNESSEE | 601,636 | 591,679 | 98.3% | 15,251 | 8,905 | 58.4% | 6,346 | 41.6% |
| WEST SOUTH CENTRAL | 5,520,509 | 5,036,872 | 91.2% | 47,525 | 41,842 | 88.0% | 5,683 | 12.0% |
| ARKANSAS | 506,042 | 441,714 | 87.3% | 3,290 | 3,290 | 100.0% | 0 | 0.0% |
| LOUISIANA | 944,920 | 877,577 | 92.9% | 1,473 | 951 | 64.6% | 522 | 35.4% |
| OKLAHOMA | 819,119 | 818,903 | 100.0% | 8,835 | 5,400 | 61.1% | 3,435 | 38.9% |
| TEXAS | 3,250,428 | 2,898,678 | 89.2% | 33,927 | 32,201 | 94.9% | 1,726 | 5.1% |
| WEST | 12,572,513 | 11,444,883 | 91.0% | 346,505 | 287,309 | 82.9% | 59,196 | 17.1% |
| MOUNTAIN | 3,163,563 | 3,056,034 | 96.6% | 68,658 | 56,277 | 82.0% | 12,381 | 18.0% |
| ARIZONA | 599,941 | 544,985 | 90.8% | 9,999 | 7,722 | 77.2% | 2,277 | 22.8% |
| COLORADO | 1,013,579 | 1,011,878 | 99.8% | 3,561 | 1,869 | 52.5% | 1,692 | 47.5% |
| IDAHO | 126,733 | 126,733 | 100.0% | 5,284 | 2,620 | 49.6% | 2,664 | 50.4% |
| MONTANA | 180,289 | 171,275 | 95.0% | 993 | 763 | 76.8% | 230 | 23.2% |
| NEVADA | 291,704 | 263,504 | 90.3% | 31,846 | 29,617 | 93.0% | 2,229 | 7.0% |
| NEW MEXICO | 377,749 | 377,749 | 100.0% | 5,548 | 3,473 | 62.6% | 2,075 | 37.4% |
| UTAH | 459,802 | 450,606 | 98.0% | 11,011 | 9,823 | 89.2% | 1,188 | 10.8% |
| WYOMING | 113,766 | 109,304 | 96.1% | 416 | 390 | 93.8% | 26 | 6.3% |
| PACIFIC | 9,408,950 | 8,388,849 | 89.2% | 277,847 | 231,032 | 83.2% | 46,815 | 16.8% |
| ALASKA | a | a | a | a | a | a | a | a |
| CALIFORNIA | 8,614,248 | 7,618,983 | 88.4% | 233,907 | 216,550 | 92.6% | 17,357 | 7.4% |
| HAWAII | a | a | a | a | a | a | a | a |
| OREGON | 332,173 | 316,851 | 95.4% | 17,047 | 5,509 | 32.3% | 11,538 | 67.7% |
| WASHINGTON | 462,529 | 453,015 | 97.9% | 26,893 | 8,973 | 33.4% | 17,920 | 66.6% |

a Insufficient data

## Househeating Conversions

In 1991, 261,727 housing units were converted from another fuel to natural gas (see Table 5), an increase of 19.5 percent compared with last year's level of conversions. The respondents were asked to provide a breakdown of conversions by fuel type. Based on these data, 122,481 units, or 46.8 percent, were conversions from fuel oil to natural gas. The majority of fuel oil conversions occurred in the New England and the Middle Atlantic regions where natural gas to oil competition is most fierce. The share of fuel oil conversions has dropped from 83 percent in 1981 as conversions from electricity have grown. Electricity conversions increased in 1991 to 68,006 units, a 19.3 percent increase relative to 1990. Electricity conversions were most prevalent in the South Atlantic, East South Central and Pacific regions. Propane conversions increased to 42,236. Consequently, fuel oil and propane accounted for a combined total of 63 percent of total conversions. Other (coal, wood, and non-classified) increased to 29,004.

Conversions from other fuels to natural gas are expected to increase another 6.8 percent in 1992, according to responding companies.

Figure 5 shows the trend in conversions by fuel type since 1981. While oil conversions have remained stable since 1983, the conversion of homes from electricity to natural gas has shown significant gains during the same period.

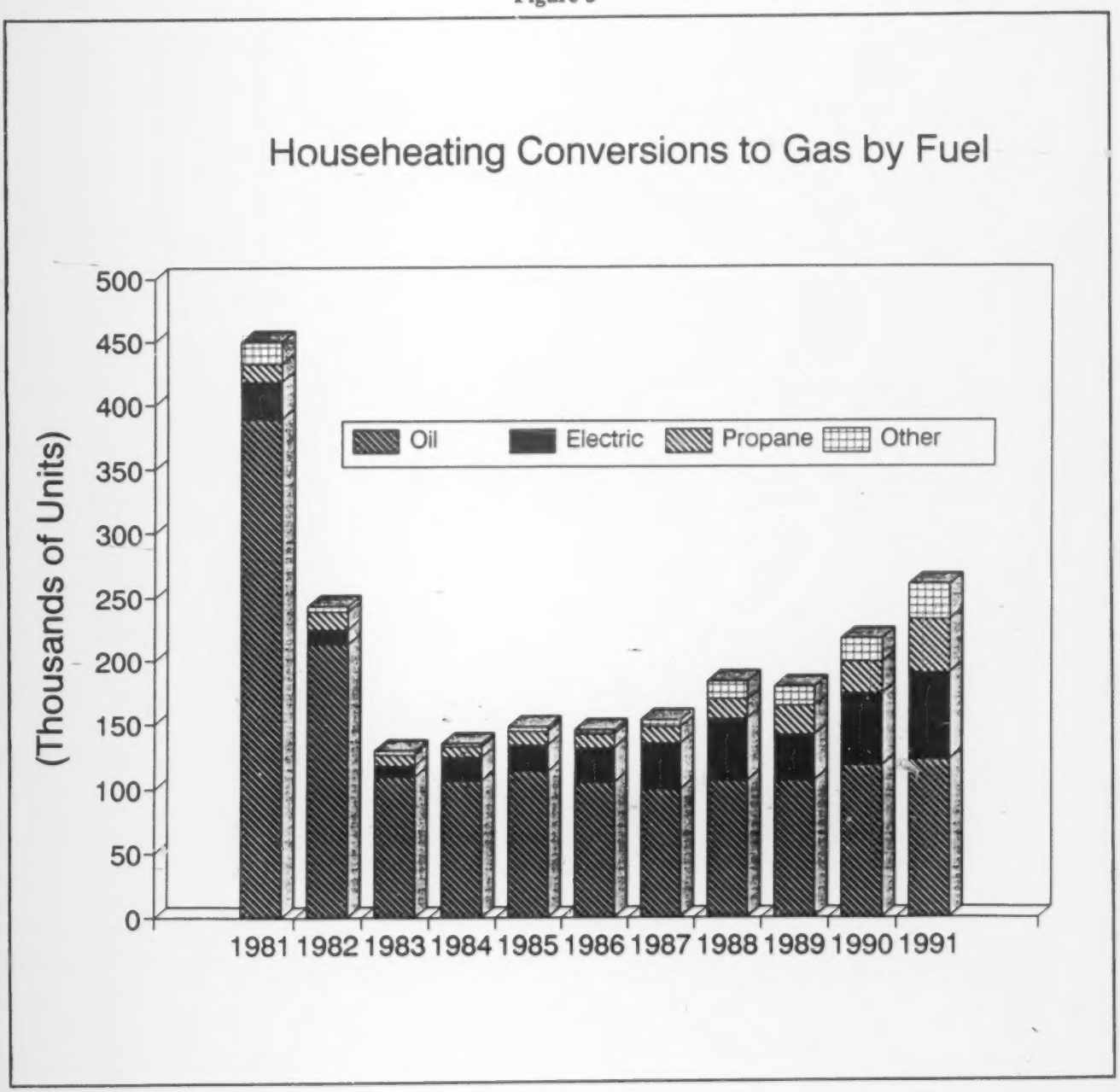
**Table 5**

HOUSEHEATING CONVERSIONS TO NATURAL GAS IN 1991 BY TYPE OF FUEL

| | ELECTRICITY | | OIL | | PROPANE | | OTHER | | TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|
| Division | UNITS | % | UNITS | % | UNITS | % | UNITS | % | UNITS | % |
| United States | 68,006 | 26.0% | 122,481 | 46.8% | 42,236 | 16.1% | 29,004 | 11.1% | 261,727 | 100.0% |
| New England | 2,586 | 8.9% | 23,495 | 80.8% | 1,058 | 3.6% | 1,929 | 6.6% | 29,068 | 11.1% |
| Middle Atlantic | 3,073 | 5.3% | 50,684 | 88.2% | 822 | 1.4% | 2,886 | 5.0% | 57,465 | 22.0% |
| East North Central | 4,989 | 13.3% | 11,812 | 31.4% | 5,099 | 13.6% | 15,705 | 41.8% | 37,605 | 14.4% |
| West North Central | 3,520 | 16.3% | 2,711 | 12.5% | 14,342 | 66.2% | 1,082 | 5.0% | 21,655 | 8.3% |
| South Atlantic | 11,889 | 30.6% | 15,798 | 40.7% | 8,084 | 20.8% | 3,036 | 7.8% | 38,807 | 14.8% |
| East South Central | 7,759 | 63.3% | 734 | 6.0% | 3,319 | 27.1% | 436 | 3.6% | 12,248 | 4.7% |
| West South Central | 2,583 | 45.5% | 2 | 0.0% | 2,308 | 40.6% | 790 | 13.9% | 5,683 | 2.2% |
| Mountain | 4,770 | 38.5% | 1,855 | 15.0% | 5,138 | 41.5% | 618 | 5.0% | 12,381 | 4.7% |
| Pacific | 26,837 | 57.3% | 15,390 | 32.9% | 2,066 | 4.4% | 2,522 | 5.4% | 46,815 | 17.9% |

Note: Other includes coal, wood and non-classified conversions.

Figure 5


Househeating Conversions to Gas by Fuel
(Thousands of Units)
500
450
400
350
300
250
200
150
100
50
0
Oil
Electric
Propane
Other
1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991

# IV. Residential Natural Gas Consumption

## Natural Gas Consumption Per Unit

Respondents to the survey estimated the average annual natural gas consumption for both single-family and multi-family dwellings. Utilities representing 85 percent of all natural gas househeating customers responded to this portion in the survey. These responses were then used to develop the U.S. and regional average estimates on natural gas consumption per unit. Both categories were weighted by the number of residential natural gas customers for each responding utility in each state.

Due to changes in the reporting methods of some utilities, and the difference in survey participation from year to year (as well as annual changes in heating degree day totals), consumption data from year to year are not always comparable. With this caveat in mind, a review of 1991 combined average consumption data (U.S. average weighted by customer and dwelling type) indicated that total per unit natural gas consumption was 88.9 Mcf for all units, while househeating was 59.0 Mcf and base load consumption was 29.8 Mcf. This represents a 3.3 percent increase compared with the previous year for househeating, which is consistent with the fact that winter months heating degree days were up nationally in 1991 (see Table 7). In single-family dwellings, natural gas consumption for househeating was 69.7 Mcf, while base load consumption was 34.8 Mcf. By comparison, the average multi-family dwelling unit consumed 28.9 Mcf and 15.9 Mcf, respectively, for househeating and base load use. This lower level of consumption is due to comparatively smaller units than single-family homes, as well as the natural insulation of multi-family dwellings.

Table 6 in[illegible]es weather data for each region in the form of annual heating degree days for calendar year 1991 and the 30-year normal heating degree days weighted by natural gas househeating customers.

**Table 6**

1991 AVERAGE ANNUAL GAS CONSUMPTION/UNIT[a] BY REGION (Mcf)

| Region | Single Family | Multi-Family | Combined[b] Average | Heating Degree Days[c] 1991 | Heating Degree Days[c] 30-Year |
|---|---|---|---|---|---|
| Northeast | | | | | |
| Heating | 96.6 | 39.7 | 81.7 | 5,175 | 5,941 |
| Baseload | 58.3 | 16.4 | 47.3 | | |
| Total | 154.9 | 56.1 | 129.1 | | |
| Midwest | | | | | |
| Heating | 101.1 | 44.6 | 86.3 | 5,877 | 6,358 |
| Baseload | 32.9 | 16.8 | 28.7 | | |
| Total | 134.0 | 61.4 | 115.0 | | |
| South | | | | | |
| Heating | 51.6 | 23.2 | 44.2 | 2,621 | 2,947 |
| Baseload | 26.2 | 15.7 | 23.5 | | |
| Total | 77.8 | 38.9 | 67.6 | | |
| West | | | | | |
| Heating | 33.8 | 10.0 | 27.6 | 3,256 | 3,336 |
| Baseload | 29.4 | 27.8 | 29.0 | | |
| Total | 63.2 | 37.8 | 56.6 | | |
| U.S. Average | | | | | |
| Heating | 69.7 | 28.9 | 59.0 | 4,268 | 4,653 |
| Baseload | 34.8 | 15.9 | 29.8 | | |
| Total | 104.5 | 44.7 | 88.9 | | |

[a]Results for 1991 are based on responses from 155 different markets.

[b]Weighted by customer and dwelling type.

[c]Calendar year heating degree days are weighted by gas househeating customers.
Source: National Oceanic and Atmospheric Administration

## Heating Bills

The annual natural gas househeating bill for a single-family home increased in 1991 as shown in Table 7. This is due to colder weather in the winter months of 1991 compared with 1990. In all regions but the Mountain and Pacific, weather was cooler in the first and fourth quarters of 1991 than in 1990. In some instances where heating bills increased, it was as a result of the impact on gas rates of higher state taxes. Changes ranged from a 15.8 percent decline in the Mountain division (where temperatures were warmer than last year) to a 23.8 percent increase in the West South Central (where temperatures were 17.9 percent colder relative to 1990). Nationally, the average natural gas househeating bill increased from $376 to $398 or 5.9 percent.

**Table 7**

**1990 AND 1991 GAS HOUSEHEATING BILLS AND WINTER HEATING DEGREE DAYS BY DIVISION**

| Division | 1990 Gas Heating Bills | 1991 Gas Heating Bills | Percent Change | 1990 Winter Months Heating Degree Days | 1991 Winter Months Heating Degree Days | Percent Change |
|---|---|---|---|---|---|---|
| United States | $375.51 | $397.95 | 6.0% | 3,253 | 3,551 | 9.2% |
| New England | $710.95 | $774.12 | 8.9% | 4,167 | 4,465 | 7.2% |
| Middle Atlantic | $596.83 | $644.67 | 8.0% | 3,797 | 4,143 | 9.1% |
| East North Central | $467.66 | $509.33 | 8.9% | 4,249 | 4,795 | 12.9% |
| West North Central | $415.65 | $387.42 | -6.8% | 4,555 | 4,965 | 9.0% |
| South Atlantic | $380.51 | $458.38 | 20.5% | 2,228 | 2,656 | 19.2% |
| East South Central | $305.79 | $322.87 | 5.6% | 2,222 | 2,740 | 23.3% |
| West South Central | $213.30 | $264.12 | 23.8% | 1,669 | 1,968 | 17.9% |
| Mountain | $304.26 | $256.30 | -15.8% | 4,175 | 4,123 | -1.2% |
| Pacific | $168.31 | $174.46 | 3.7% | 2,217 | 2,050 | -7.5% |

Note: Both heating bills and degree days are weighted by gas househeating customers. Degree days are for the months of January, February, March, November and December for each year, weighted by gas househeating customers. Source: National Oceanic and Atmospheric Administration.

# Appendix 1
## Customers and Consumption

APPENDIX 1 -- CUSTOMERS AND CONSUMPTION

| DIVISION / STATE | COMPANY | RESIDENTIAL CUSTOMERS YEAR-END 1991 | HOUSEHEATING CUSTOMERS YEAR-END 1991 | CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING | BASELOAD | GAS-HTG MKT-SHARE % |
|---|---|---|---|---|---|---|
| **NEW ENGLAND** | | | | | | |
| CONNECTICUT | | | | | | |
| | CONNECTICUT NATURAL GAS CORP. | 128,821 | 100,759 | N/A | N/A | 40.0 |
| | SOUTHERN CONNECTICUT GAS CO. | 139,171 | 100,366 | 72.5 | 28.8 | 31.0 |
| | YANKEE GAS SERVICES CO. | 156,004 | 102,985 | 91.0 | 39.2 | 53.6 |
| MAINE | | | | | | |
| | NORTHERN UTILITIES | 12,800 | 6,800 | 69.3 | 28.3 | 7.0 |
| MASSACHUSETTS | | | | | | |
| | BAY STATE GAS COMPANY | 212,000 | 172,000 | 77.5 | 34.6 | 42.0 |
| | BERKSHIRE GAS COMPANY | 27,046 | 20,774 | 120.0 | 30.0 | 40.0 |
| | BOSTON GAS CO. | 463,522 | 281,491 | 106.0 | 36.0 | 40.0 |
| | COLONIAL GAS CO. - CAPE COD | 54,126 | 47,219 | 85.0 | 35.0 | 39.0 |
| | COLONIAL GAS CO. - LOWELL | 107,066 | 99,555 | 90.0 | 50.0 | 48.8 |
| | COMMONWEALTH GAS CO. | 204,037 | 172,554 | 124.0 | 31.0 | 39.0 |
| | ESSEX COUNTY GAS CO. | 34,145 | 27,346 | 69.6 | 31.7 | 47.3 |
| NEW HAMPSHIRE | | | | | | |
| | ENERGYNORTH, INC. | 54,980 | 48,943 | 109.9 | 25.5 | 26.0 |
| | NORTHERN UTILITIES | 13,000 | 11,500 | 63.9 | 26.1 | 15.0 |
| RHODE ISLAND | | | | | | |
| | PROVIDENCE GAS CO. | 152,637 | 91,491 | 105.6 | 36.0 | 52.0 |
| | VALLEY GAS CO | 48,879 | 38,233 | 75.0 | 20.0 | 47.0 |
| VERMONT | | | | | | |
| | VERMONT GAS SYSTEMS | 20,278 | 18,573 | N/A | N/A | N/A |
| **MIDDLE ATLANTIC** | | | | | | |
| NEW JERSEY | | | | | | |
| | ELIZABETHTOWN GAS CO. | 211,719 | 146,960 | N/A | N/A | N/A |
| | NEW JERSEY NATURAL GAS CO. | 292,798 | 262,894 | 64.8 | 32.7 | 52.0 |
| | PUBLIC SERVICE ELECTRIC & GAS | 1,318,000 | 881,000 | 99.0 | 20.0 | 84.0 |
| | SOUTH JERSEY GAS CO. | 207,318 | 181,642 | 65.0 | 27.5 | 45.9 |
| NEW YORK | | | | | | |
| | BROOKLYN UNION GAS CO. | 1,109,680 | 684,236 | 97.0 | 45.0 | 50.6 |
| | CENTRAL HUDSON GAS & ELECTRIC | 50,219 | 37,480 | 60.0 | 50.0 | 5.9 |
| | CONSOLIDATED EDISON CO. | 931,628 | 614,874 | N/A | N/A | 52.0 |
| | LONG ISLAND LIGHTING CO. | 392,143 | 220,562 | 115.0 | 45.0 | 25.0 |
| | NATIONAL FUEL GAS DIST. | 481,305 | 465,656 | 102.5 | 33.9 | 89.8 |
| | NIAGARA MOHAWK POWER CO. | 442,709 | 365,262 | N/A | N/A | N/A |
| | ORANGE & ROCKLAND UTILITIES | 96,273 | 91,426 | 90.0 | 41.0 | 57.0 |
| | ROCHESTER GAS & ELECTRIC | 244,336 | 222,918 | 83.4 | 31.4 | N/A |
| | ST. LAWRENCE GAS CO. | 11,378 | 10,603 | 123.0 | 25.0 | 78.0 |
| PENNSYLVANIA | | | | | | |
| | COLUMBIA GAS OF PA | 321,468 | 308,776 | 99.7 | 33.1 | N/A |
| | EQUITABLE RESOURCES | 248,595 | 227,521 | 83.0 | 31.2 | 25.3 |
| | NATIONAL FUEL GAS DIST. | 192,110 | 190,310 | 114.7 | 32.7 | 82.0 |
| | NORTH PENN GAS CO. | 30,125 | 29,908 | 82.0 | 28.5 | N/A |
| | PENNSYLVANIA GAS & WATER | 121,103 | 104,167 | 140.0 | 27.0 | 38.0 |
| | PHILADELPHIA ELECTRIC CO. | 322,917 | 260,473 | 75.7 | 28.8 | 35.9 |
| | PHILADELPHIA GAS WORKS | 504,200 | 411,000 | 125.0 | 43.0 | 62.0 |
| | PIKE COUNTY LIGHT & POWER | 939 | 883 | 77.0 | 41.0 | 28.0 |
| | UGI CORPORATION | 205,055 | 144,756 | 84.8 | 30.6 | 25.4 |
| **EAST NORTH CENTRAL** | | | | | | |
| ILLINOIS | | | | | | |
| | ILLINOIS POWER CO. | 367,000 | 287,360 | N/A | N/A | 78.0 |
| | IOWA-ILLINOIS GAS & ELECTRIC | 58,699 | 56,673 | 86.3 | 32.8 | 78.0 |
| | NORTH SHORE GAS CO. | 114,668 | 110,610 | 137.0 | 47.0 | 93.0 |
| | NORTHERN ILLINOIS GAS CO. | 1,575,645 | 1,520,786 | 113.0 | 32.0 | 87.0 |
| | PEOPLES GAS LIGHT & COKE | 801,664 | 591,196 | 142.0 | 41.0 | 93.0 |
| | UNITED CITIES GAS CO. | 19,490 | 18,916 | N/A | N/A | 79.0 |
| | WISCONSIN POWER & LIGHT CO. | 3,861 | 3,780 | 109.7 | 26.1 | N/A |
| INDIANA | | | | | | |
| | CITIZENS GAS & COKE UTILITY | 220,655 | 214,380 | 90.0 | 30.0 | 75.0 |
| | INDIANA GAS COMPANY | 374,876 | 369,972 | 94.2 | 21.6 | N/A |
| | INDIANA NATURAL GAS CORP | 5,519 | 4646 | 111.0 | 33.0 | 84.0 |
| | KOKOMO GAS & FUEL CO. | 27,954 | 27,635 | 84.8 | 25.2 | 81.0 |
| | LAWRENCEBURG GAS CO. | 4,245 | 4,043 | 100.0 | 40.0 | 74.0 |

APPENDIX 1 -- CUSTOMERS AND CONSUMPTION

| DIVISION STATE | COMPANY | RESIDENTIAL CUSTOMERS YEAR-END 1991 | HOUSEHEATING CUSTOMERS YEAR-END 1991 | CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING | BASELOAD | GAS-HTG MKT-SHARE % |
|---|---|---|---|---|---|---|
| | MIDWEST NATURAL GAS CORP | 9,927 | 8,247 | 82.1 | 3.8 | N/A |
| | NORTHERN INDIANA FUEL & LIGHT | 23,886 | 23,091 | 106.4 | 40.2 | N/A |
| | NORTHERN INDIANA PUBLIC SVC. | 554,972 | 538,557 | N/A | N/A | 82.0 |
| MICHIGAN | | | | | | |
| | BATTLE CREEK GAS COMPANY | 33,472 | 30,397 | 180.0 | 40.0 | N/A |
| | CONSUMERS POWER CO. | 1,269,661 | 1,254,994 | 92.0 | 27.0 | 99.0 |
| | MICHIGAN CONSOLIDATED GAS | 1,111,945 | 1,006,920 | 110.7 | 45.3 | 85.0 |
| | MICHIGAN GAS CO. | 76,322 | 75,228 | N/A | N/A | 75.0 |
| | MICHIGAN GAS UTILITIES CO. | 114,704 | 112,963 | 89.0 | 31.0 | 24.0 |
| OHIO | | | | | | |
| | CINCINNATI GAS & ELECTRIC | 298,872 | 277,242 | 102.7 | 41.1 | 56.0 |
| | COLUMBIA GAS OF OHIO | 1,103,205 | 1,094,150 | 96.9 | 32.2 | N/A |
| | DAYTON POWER & LIGHT | 258,092 | 255,156 | 71.8 | 28.2 | N/A |
| | EAST OHIO GAS CO. | 978,978 | 970,278 | 104.0 | 42.0 | N/A |
| | OHIO GAS CO. | 30,790 | 28,185 | 80.0 | 35.0 | 67.0 |
| | WEST OHIO GAS CO. | 52,770 | 52,051 | 91.2 | 20.8 | 87.9 |
| WISCONSIN | | | | | | |
| | MADISON GAS & ELECTRIC | 79,840 | 74,724 | 84.2 | 26.2 | 85.6 |
| | WISCONSIN FUEL & LIGHT CO. | 39,218 | 37,923 | 88.9 | 25.1 | 77.4 |
| | WISCONSIN GAS CO. | 415,979 | 378,351 | N/A | N/A | N/A |
| | WISCONSIN NATURAL GAS CO. | 248,906 | 237,426 | 112.4 | 23.0 | 71.0 |
| | WISCONSIN POWER & LIGHT CO. | 109,211 | 103,511 | 106.2 | 24.9 | N/A |
| | WISCONSIN PUBLIC SERVICE | 164,392 | 158,301 | 113.0 | 33.0 | N/A |
| | WISCONSIN SOUTHERN GAS CO. | 41,829 | 40,797 | 89.3 | 25.7 | 74.0 |
| WEST NORTH CENTRAL | | | | | | |
| IOWA | | | | | | |
| | IOWA PUBLIC SERVICE CO. | 246,096 | 236,746 | 85.7 | 26.9 | N/A |
| | IOWA-ILLINOIS GAS & ELECTRIC | 156,072 | 151,960 | 80.6 | 30.7 | 87.0 |
| | PEOPLES NATURAL GAS (UTILICORP) | 112,755 | 112,191 | 90.0 | 24.0 | N/A |
| | UNITED CITIES GAS CO. | 4,138 | 4,096 | N/A | N/A | 91.0 |
| KANSAS | | | | | | |
| | ARKANSAS LOUISIANA GAS CO. | 20,084 | 17,553 | 55.5 | 33.5 | 84.0 |
| | K N ENERGY, INC. | 22,679 | 22,225 | 75.4 | 36.3 | N/A |
| | KANSAS PUBLIC SERVICE | 22,107 | 22,107 | N/A | N/A | 91.7 |
| | KPL GAS SERVICE | 527,710 | 521,866 | N/A | N/A | 95.0 |
| | MIDWEST ENERGY, INC. | 9,718 | 9,718 | 93.5 | 30.8 | 90.0 |
| | PEOPLES NATURAL GAS (UTILICORP) | 32,835 | 32,671 | 75.0 | 32.0 | N/A |
| | UNITED CITIES GAS CO. | 64,059 | 64,059 | N/A | N/A | 81.0 |
| MINNESOTA | | | | | | |
| | AUSTIN UTILITIES | 9,658 | 9,550 | 120.0 | 30.0 | 73.0 |
| | CITY OF DULUTH | 22,435 | 15,570 | 140.0 | 45.0 | N/A |
| | IOWA PUBLIC SERVICE CO. | 69,876 | 69,518 | 78.4 | 29.0 | N/A |
| | MINNEGASCO, INC. | 453,110 | 444,634 | 93.0 | 32.5 | 87.0 |
| | NORTHERN MINNESOTA UTILITIES | 21,799 | 20,799 | 85.6 | 30.2 | 72.0 |
| | PEOPLES NATURAL GAS (UTILICORP) | 99,149 | 98,653 | 93.0 | 24.0 | N/A |
| MISSOURI | | | | | | |
| | ASSOCIATED NATURAL GAS CO. | 38,707 | 32,794 | 65.0 | 21.0 | 61.0 |
| | CITY OF SPRINGFIELD | 57,807 | 57,807 | 70.0 | 27.0 | 87.0 |
| | KPL GAS SERVICE | 399,269 | 313,731 | N/A | N/A | N/A |
| | LACLEDE GAS CO. | 561,720 | 548,157 | N/A | N/A | 77.0 |
| | MISSOURI PUBLIC SERVICE | 40,283 | 35,485 | 74.0 | 24.0 | N/A |
| | ST. JOSEPH LIGHT & POWER CO. | 5,204 | 5,157 | N/A | N/A | 80.0 |
| | UNION ELECTRIC COMPANY | 113,803 | 18,256 | 84.6 | 12.4 | N/A |
| | UNITED CITIES GAS CO. | 12,397 | 12,273 | N/A | N/A | 78.0 |
| NEBRASKA | | | | | | |
| | HASTINGS UTILITIES | 8,818 | 8,758 | N/A | N/A | N/A |
| | IOWA PUBLIC SERVICE CO. | 3,632 | 3,410 | 74.6 | 27.9 | N/A |
| | K N ENERGY, INC. | 78,376 | 76,808 | 77.4 | 26.7 | N/A |
| | METROPOLITAN UTILITIES DIST. | 138,570 | 136,022 | 87.0 | 29.0 | 95.0 |
| | MINNEGASCO, INC. | 111,294 | 109,731 | 64.2 | 29.9 | 84.0 |
| | NORTHWESTERN PUBLIC SERVICE | 37,545 | 32,785 | 78.0 | 40.0 | 99.0 |
| | PEOPLES NATURAL GAS (UTILICORP) | 33,220 | 33,054 | 77.0 | 26.0 | N/A |
| NORTH DAKOTA | | | | | | |
| | MONTANA-DAKOTA UTILITIES CO. | 65,107 | 62,503 | 103.9 | 26.4 | 97.0 |

APPENDIX 1 -- CUSTOMERS AND CONSUMPTION

| DIVISION / STATE | COMPANY | RESIDENTIAL CUSTOMERS YEAR-END 1991 | HOUSEHEATING CUSTOMERS YEAR-END 1991 | CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING | CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASELOAD | GAS-HTG MKT-SHARE % |
|---|---|---|---|---|---|---|
| SOUTH DAKOTA | | | | | | |
| | IOWA PUBLIC SERVICE CO. | 7,709 | 7,295 | 81.5 | 24.5 | N/A |
| | MINNEGASCO, INC. | 39,163 | 38,944 | 74.1 | 32.0 | 90.0 |
| | MONTANA-DAKOTA UTILITIES CO. | 28,776 | 26,762 | 80.0 | 26.4 | 94.0 |
| | NORTHWESTERN PUBLIC SERVICE | 30,395 | 25,318 | 89.0 | 30.0 | N/A |
| SOUTH ATLANTIC | | | | | | |
| DELAWARE | | | | | | |
| | CHESAPEAKE UTILITIES CORP. | 12,027 | 9,805 | 99.0 | 28.0 | N/A |
| | DELMARVA POWER & LIGHT CO. | 87,351 | 63,429 | N/A | N/A | 37.7 |
| DISTRICT OF COLUMBIA | | | | | | |
| | WASHINGTON GAS LIGHT CO. | * | * | * | * | * |
| FLORIDA | | | | | | |
| | PEOPLES GAS SYSTEM, INC. | 162,393 | 87,000 | 11.7 | 13.6 | N/A |
| GEORGIA | | | | | | |
| | ATLANTA GAS LIGHT COMPANY | 1,218,506 | 1,111,839 | 49.8 | 29.2 | 88.0 |
| | UNITED CITIES GAS CO. | 63,229 | 56,906 | N/A | N/A | 91.0 |
| MARYLAND | | | | | | |
| | BALTIMORE GAS & ELECTRIC | 482,085 | 360,793 | 109.6 | 38.7 | 38.9 |
| | CHESAPEAKE UTILITIES CORP. | 5,606 | 4,402 | 90.0 | 30.0 | N/A |
| | COLUMBIA GAS OF MD | 27,019 | 24,107 | 90.6 | 26.7 | N/A |
| | WASHINGTON GAS LIGHT CO. | * | * | * | * | * |
| NORTH CAROLINA | | | | | | |
| | CITY OF WILSON | 6,646 | 6,646 | 68.7 | 3.7 | 26.4 |
| | NORTH CAROLINA NATURAL GAS | 112,190 | 69,194 | 60.0 | 32.0 | N/A |
| | PIEDMONT NATURAL GAS CO. | 227,814 | 62,422 | 75.4 | 19.3 | 31.0 |
| | PUBLIC SERVICE OF NC | 232,142 | 206,153 | 68.0 | 23.0 | 32.3 |
| SOUTH CAROLINA | | | | | | |
| | PIEDMONT NATURAL GAS CO. | 65,454 | 26,902 | 74.4 | 14.1 | 25.0 |
| | SOUTH CAROLINA ELECTRIC & GAS | 200,114 | 154,000 | N/A | N/A | N/A |
| | UNITED CITIES GAS CO. | 4,019 | 3,744 | N/A | N/A | 34.0 |
| VIRGINIA | | | | | | |
| | CITY OF CHARLOTTESVILLE | 13,362 | 12,071 | 79.0 | 24.0 | N/A |
| | CITY OF DANVILLE | 14,629 | 13,310 | 83.3 | 20.6 | 65.6 |
| | COMMONWEALTH GAS SERVICES | 123,242 | 118,594 | 68.9 | 25.9 | N/A |
| | ROANOKE GAS COMPANY | 41,813 | 37,922 | 88.0 | 7.0 | N/A |
| | UNITED CITIES GAS CO. | 11,663 | 10,613 | N/A | N/A | 38.0 |
| | VIRGINIA NATURAL GAS | 150,465 | 120,071 | 51.1 | 16.5 | 26.7 |
| | WASHINGTON GAS LIGHT CO. | * | * | * | * | * |
| WEST VIRGINIA | | | | | | |
| | HOPE GAS CO. | 102,187 | 100,653 | 70.5 | 44.5 | 97.0 |
| | MOUNTAINEER GAS CO. | 181,704 | 180,918 | N/A | N/A | N/A |
| EAST SOUTH CENTRAL | | | | | | |
| ALABAMA | | | | | | |
| | ALABAMA GAS CORP. | 406,047 | 391,098 | 44.3 | 26.1 | 70.0 |
| | CITY OF FLORENCE | 11,595 | 11,595 | N/A | N/A | 38.1 |
| | DECATUR UTILITIES | 6,726 | 6,476 | 49.0 | 11.0 | 28.0 |
| | HUNTSVILLE UTILITIES GAS DEPT. | 30,846 | 30,846 | 102.5 | N/A | N/A |
| KENTUCKY | | | | | | |
| | COLUMBIA GAS OF KY | 111,984 | 111,355 | 87.1 | 26.3 | N/A |
| | LOUISVILLE GAS & ELECTRIC | 228,934 | 226,638 | N/A | N/A | N/A |
| | UNION LIGHT, HEAT & POWER | 61,320 | 58,929 | 100.0 | 40.0 | 60.0 |
| | WESTERN KENTUCKY GAS CO. | 154,100 | 129,583 | 76.0 | 24.0 | 35.0 |
| MISSISSIPPI | | | | | | |
| | ENTEX, INC. | 99,758 | 99,702 | 42.0 | 28.0 | 87.5 |
| | MISSISSIPPI VALLEY GAS CO. | 211,059 | 211,059 | 44.0 | 30.0 | 78.0 |
| TENNESSEE | | | | | | |
| | KNOXVILLE UTILITIES BOARD | 32,863 | 32,132 | N/A | N/A | N/A |
| | MEMPHIS LIGHT, GAS & WATER | 248,350 | 248,350 | 77.0 | N/A | 94.0 |
| | MIDDLE TENNESSEE NATURAL GAS | 23,186 | 22,258 | 52.0 | 12.0 | 70.0 |
| | NASHVILLE GAS CO. | 77,874 | 77,874 | 85.0 | 30.0 | 30.0 |
| | UNITED CITIES GAS CO. | 63,538 | 57,819 | N/A | N/A | 50.0 |
| WEST SOUTH CENTRAL | | | | | | |
| ARKANSAS | | | | | | |
| | ARKANSAS LOUISIANA GAS CO. | 366,580 | 320,391 | 50.5 | 30.5 | 57.0 |

## APPENDIX 1 -- CUSTOMERS AND CONSUMPTION

| DIVISION STATE | COMPANY | RESIDENTIAL CUSTOMERS YEAR-END 1991 | HOUSEHEATING CUSTOMERS YEAR-END 1991 | CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING | BASELOAD | GAS-HTG MKT-SHARE % |
|---|---|---|---|---|---|---|
| | ARKANSAS WESTERN GAS CO. | 86,595 | 75,637 | 55.0 | 37.0 | 45.0 |
| | ASSOCIATED NATURAL GAS CO. | 17,960 | 15,216 | 61.0 | 20.0 | 61.0 |
| LOUISIANA | | | | | | |
| | ARKANSAS LOUISIANA GAS CO. | 122,978 | 107,483 | 44.3 | 26.7 | 64.0 |
| | ENTEX, INC. | 116,800 | 105,120 | 36.0 | 37.0 | 90.0 |
| | LOUISIANA GAS SERVICE CO. | 15,120 | 14,357 | 54.1 | 25.0 | 90.0 |
| | NEW ORLEANS PUBLIC SERVICE | 144,621 | 144,621 | 27.0 | 33.0 | 85.0 |
| | SOUTH COAST GAS COMPANY | 16,091 | 15,112 | N/A | N/A | N/A |
| | TRANS LOUISIANA GAS COMPANY | 65,883 | 57,129 | 28.5 | 30.8 | 95.0 |
| OKLAHOMA | | | | | | |
| | ARKANSAS LOUISIANA GAS CO. | 102,350 | 89,454 | 48.7 | 29.3 | 54.0 |
| | KPL GAS SERVICE | 30,334 | 31,762 | N/A | N/A | 95.0 |
| | OKLAHOMA NATURAL GAS CO. | 599,125 | 610,400 | 62.6 | 31.0 | 89.0 |
| TEXAS | | | | | | |
| | ARKANSAS LOUISIANA GAS CO. | 41,383 | 36,169 | 42.4 | 25.6 | 60.0 |
| | CITY PUBLIC SERVICE | 267,145 | 229,745 | 30.6 | 23.9 | 62.0 |
| | ENTEX, INC. | 1,019,013 | 791,149 | 55.0 | 54.0 | 79.0 |
| | LONE STAR GAS CO. | 1,122,815 | 1,010,534 | 48.0 | 26.0 | 46.3 |
| MOUNTAIN | | | | | | |
| ARIZONA | | | | | | |
| | CITIZENS UTILITIES CO. | 6,105 | 5,619 | 36.2 | 28.7 | 99.9 |
| | SOUTHWEST GAS CORP. - TUCSON | 215,017 | 184,915 | 29.0 | 22.0 | 76.0 |
| | SOUTHWEST GAS CORP. - PHOENIX | 297,774 | 280,830 | 25.6 | 51.0 | 36.0 |
| COLORADO | | | | | | |
| | CITY OF COLORADO SPRINGS | 106,818 | 106,818 | 65.2 | 31.6 | 82.0 |
| | K N ENERGY, INC. | 5,242 | 5,137 | 84.6 | 27.9 | N/A |
| | PEOPLES NATURAL GAS (UTILICORP) | 25,016 | 24,891 | 99.0 | 35.0 | N/A |
| IDAHO | | | | | | |
| | INTERMOUNTAIN GAS CO. | 110,627 | 110,627 | 66.7 | 25.2 | 37.0 |
| | WASHINGTON WATER POWER | 21,989 | 21,989 | 71.8 | 15.6 | N/A |
| MONTANA | | | | | | |
| | MONTANA-DAKOTA UTILITIES CO. | 55,542 | 52,765 | 85.5 | 26.4 | 93.0 |
| NEVADA | | | | | | |
| | SIERRA PACIFIC POWER COMPANY | 72,059 | 69,830 | 66.0 | 27.0 | 70.0 |
| | SOUTHWEST GAS CORP. - LAS VEGAS | 182,033 | 154,728 | 39.2 | 31.4 | 46.0 |
| | SOUTHWEST GAS CORP. - CARSON CITY | 57,355 | 56,781 | 65.0 | 23.0 | 82.0 |
| NEW MEXICO | | | | | | |
| | GAS COMPANY OF NEW MEXICO | 320,546 | 320,546 | N/A | N/A | 82.0 |
| UTAH | | | | | | |
| | MOUNTAIN FUEL SUPPLY CO. | 459,835 | 450,638 | 83.6 | 36.2 | 86.0 |
| WYOMING | | | | | | |
| | K N ENERGY, INC. | 8,823 | 8,647 | 79.1 | 28.5 | N/A |
| | MONTANA-DAKOTA UTILITIES CO. | 10,832 | 10,182 | 93.8 | 30.0 | 88.0 |
| | MOUNTAIN FUEL SUPPLY CO. | 17,522 | 17,172 | 88.5 | 32.3 | 79.4 |
| | WYOMING GAS CO. | 2,700 | 2,312 | N/A | 34.0 | 78.0 |
| PACIFIC | | | | | | |
| CALIFORNIA | | | | | | |
| | PACIFIC GAS AND ELECTRIC | 3,301,000 | 2,410,000 | 33.9 | 21.6 | 72.0 |
| | SAN DIEGO GAS & ELECTRIC | 653,678 | 655,860 | 18.0 | 23.0 | 61.0 |
| | SOUTHERN CALIFORNIA GAS CO. | 4,429,891 | 4,341,293 | 24.6 | 29.3 | 96.4 |
| | SOUTHWEST GAS CORP. | 82,312 | 81,489 | 26.5 | 20.6 | 78.0 |
| OREGON | | | | | | |
| | NORTHWEST NATURAL GAS CO. | 285,758 | 272,577 | 62.6 | 24.0 | 31.0 |
| WASHINGTON | | | | | | |
| | NORTHWEST NATURAL GAS CO. | 10,197 | 9,654 | 86.6 | 24.0 | 12.0 |
| | WASHINGTON NATURAL GAS CO. | 356,108 | 351,244 | 78.9 | 23.6 | 35.0 |
| | WASHINGTON WATER POWER | 66,232 | 62,742 | 82.2 | 20.4 | N/A |

• INDIVIDUAL COMPANY DATA WITHHELD.

# Appendix 2
## Additions From New Construction and Conversions

## APPENDIX 2 -- ADDITIONS FROM NEW CONSTRUCTION AND CONVERSIONS

| DIVISION/STATE<br>COMPANY | ADDITIONS FROM NEW CONSTRUCTION<br>1991 | <br>1992 | TOTAL CONVERSIONS TO GAS<br>1991 | <br>1992 | LESS TOTAL LOSSES<br>1991 | <br>1992 | NET ADDITIONS<br>1991 | <br>1992 |
|---|---|---|---|---|---|---|---|---|
| **NEW ENGLAND** | | | | | | | | |
| CONNECTICUT | | | | | | | | |
| CONNECTICUT NATURAL GAS CORP. | 1,038 | 1,500 | 1,893 | 2,000 | 94 | 125 | 2,837 | 3,375 |
| SOUTHERN CONNECTICUT GAS CO. | 4 | N/A | 2,227 | 3,000 | 715 | N/A | 1,516 | 3,000 |
| YANKEE GAS SERVICES CO. | 724 | 1,328 | 1,135 | 1,985 | N/A | N/A | 1,859 | 3,313 |
| TOTAL CONNECTICUT | 1,766 | 2,828 | 5,255 | 6,985 | 809 | 125 | 6,212 | 9,688 |
| MAINE | | | | | | | | |
| NORTHERN UTILITIES | 25 | 25 | 1,075 | 750 | 500 | 400 | 600 | 375 |
| TOTAL MAINE | 25 | 25 | 1,075 | 750 | 500 | 400 | 600 | 375 |
| MASSACHUSETTS | | | | | | | | |
| BAY STATE GAS COMPANY | 1,900 | 1,700 | 5,200 | 4,000 | 3,100 | 2,600 | 4,000 | 3,100 |
| BERKSHIRE GAS COMPANY | 182 | 50 | 629 | 450 | 15 | 30 | 796 | 470 |
| BOSTON GAS CO. | 865 | 850 | 5,937 | 6,350 | N/A | N/A | 6,802 | 7,200 |
| COLONIAL GAS CO. - CAPE COD | 540 | 900 | 2,160 | 2,550 | N/A | N/A | 2,700 | 3,450 |
| COLONIAL GAS CO. - LOWELL | 1,309 | 1,540 | 2,768 | 2,910 | 1,411 | 1,200 | 2,666 | 3,250 |
| COMMONWEALTH GAS CO. | 818 | 869 | 2,722 | 1,854 | N/A | N/A | 3,540 | 2,723 |
| ESSEX COUNTY GAS CO. | 366 | 734 | 536 | 237 | 111 | 111 | 791 | 860 |
| TOTAL MASSACHUSETTS | 5,980 | 6,643 | 19,952 | 18,351 | 4,637 | 3,941 | 21,295 | 21,053 |
| NEW HAMPSHIRE | | | | | | | | |
| ENERGYNORTH | 215 | 250 | 789 | 660 | 61 | 60 | 943 | 850 |
| NORTHERN UTILITIES | 200 | 200 | 800 | 550 | 100 | 100 | 900 | 650 |
| TOTAL NEW HAMPSHIRE | 415 | 450 | 1,589 | 1,210 | 161 | 160 | 1,843 | 1,500 |
| RHODE ISLAND | | | | | | | | |
| PROVIDENCE GAS CO. | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| VALLEY GAS CO. | 85 | 75 | 542 | 265 | 14 | 14 | 613 | 326 |
| TOTAL RHODE ISLAND | 85 | 75 | 542 | 265 | 14 | 14 | 613 | 326 |
| VERMONT | | | | | | | | |
| VERMONT GAS SYSTEMS | 128 | 250 | 655 | 600 | 0 | 30 | 783 | 820 |
| TOTAL VERMONT | 128 | 250 | 655 | 600 | 0 | 30 | 783 | 820 |
| TOTAL NEW ENGLAND | 8,399 | 10,271 | 29,068 | 28,161 | 6,121 | 4,670 | 31,346 | 33,762 |
| **MIDDLE ATLANTIC** | | | | | | | | |
| NEW JERSEY | | | | | | | | |
| ELIZABETHTOWN GAS CO. | 1,196 | 1,310 | 3,208 | 2,790 | N/A | N/A | 4,404 | 4,100 |
| NEW JERSEY NATURAL GAS COMPANY | 4,091 | N/A | 2,902 | 6,700 | N/A | N/A | 6,993 | 6,700 |
| PUBLIC SERVICE ELECTRIC & GAS | N/A | N/A | 11,272 | N/A | N/A | N/A | 11,272 | N/A |
| SOUTH JERSEY GAS CO. | 5,078 | 4,300 | 2,120 | 2,162 | 33 | 35 | 7,165 | 6,427 |
| TOTAL NEW JERSEY | 10,365 | 5,610 | 19,502 | 11,652 | 33 | 35 | 29,834 | 17,227 |
| NEW YORK | | | | | | | | |
| BROOKLYN UNION GAS CO. | 6,877 | 7,000 | 13,525 | 8,000 | N/A | N/A | 20,402 | 15,000 |
| CENTRAL HUDSON GAS & ELECTRIC | 483 | 600 | 244 | 500 | N/A | N/A | 727 | 1,100 |
| CONSOLIDATED EDISON CO. OF NY | 1,410 | 1,897 | 3,626 | 5,652 | 200 | 150 | 4,836 | 7,399 |
| LONG ISLAND LIGHTING CO. | 1,265 | 1,350 | 6,314 | 7,500 | N/A | N/A | 7,579 | 8,850 |
| NATIONAL FUEL GAS DIST. | 1,627 | 1,600 | 438 | 450 | N/A | N/A | 2,065 | 2,050 |
| NIAGARA MOHAWK POWER CO. | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| ORANGE & ROCKLAND UTILITIES | 847 | 1,310 | 323 | N/A | N/A | N/A | 1,170 | 1,310 |
| ROCHESTER GAS & ELECTRIC | 2,893 | 3,140 | 1,214 | 1,036 | 431 | 485 | 3,676 | 3,691 |
| ST. LAWRENCE GAS CO. | 32 | 35 | 438 | 310 | 15 | 18 | 455 | 327 |
| TOTAL NEW YORK | 15,434 | 16,932 | 26,122 | 23,448 | 646 | 653 | 40,910 | 39,727 |
| PENNSYLVANIA | | | | | | | | |
| COLUMBIA GAS OF PA | 3,012 | 2,977 | 760 | 796 | 937 | 544 | 2,835 | 3,229 |
| EQUITABLE RESOURCES | 832 | 1,432 | 21 | 31 | 707 | 707 | 146 | 756 |
| NATIONAL FUEL GAS DIST. | 955 | 700 | 579 | 332 | N/A | N/A | 1,534 | 1,032 |
| NORTH PENN GAS CO. | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| PENNSYLVANIA GAS & WATER | 724 | 840 | 2,470 | 2,522 | 188 | 190 | 3,006 | 3,172 |
| PHILADELPHIA ELECTRIC CO. | 3,578 | 3,756 | 2,494 | 2,200 | 163 | 200 | 5,909 | 5,756 |
| PHILADELPHIA GAS WORKS | 1,545 | 1,800 | 2,141 | 1,800 | N/A | N/A | 3,686 | 3,600 |
| PIKE COUNTY LIGHT & POWER | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| UGI CORPORATION | 2,809 | 2,157 | 3,376 | 2,360 | 188 | 180 | 5,997 | 4,337 |
| TOTAL PENNSYLVANIA | 13,455 | 13,662 | 11,841 | 10,041 | 2,183 | 1,821 | 23,113 | 21,882 |
| TOTAL MIDDLE ATLANTIC | 39,254 | 36,204 | 57,465 | 45,141 | 2,862 | 2,509 | 93,857 | 78,836 |
| **EAST NORTH CENTRAL** | | | | | | | | |
| ILLINOIS | | | | | | | | |
| ILLINOIS POWER CO. | N/A | N/A | 1,100 | N/A | N/A | N/A | 1,100 | N/A |
| IOWA-ILLINOIS GAS & ELECTRIC | 244 | 250 | 38 | 42 | 12 | 15 | 270 | 277 |
| NORTH SHORE GAS CO. | 2,211 | 2,750 | 118 | 180 | 100 | 100 | 2,229 | 2,830 |

## APPENDIX 2 -- ADDITIONS FROM NEW CONSTRUCTION AND CONVERSIONS

| DIVISION/STATE | ADDITIONS FROM NEW CONSTRUCTION | | TOTAL CONVERSIONS TO GAS | | LESS TOTAL LOSSES | | NET ADDITIONS | |
|---|---|---|---|---|---|---|---|---|
| COMPANY | 1991 | 1992 | 1991 | 1992 | 1991 | 1992 | 1991 | 1992 |
| NORTHERN ILLINOIS GAS CO. | 36,239 | N/A | 1,549 | N/A | N/A | N/A | 37,788 | N/A |
| PEOPLES GAS LIGHT & COKE | 2,638 | 2,902 | 104 | 100 | 1,100 | 1,100 | 1,642 | 1,902 |
| UNITED CITIES GAS CO. | 190 | 195 | 98 | 99 | N/A | N/A | 288 | 294 |
| WISCONSIN POWER & LIGHT CO. | N/A | 57 | 118 | 38 | N/A | N/A | 118 | 95 |
| TOTAL ILLINOIS | 41,522 | 6,154 | 3,125 | 459 | 1,212 | 1,215 | 43,435 | 5,398 |
| INDIANA | | | | | | | | |
| CITIZENS GAS & COKE UTILITY | 1,881 | N/A | 1,153 | N/A | N/A | N/A | 3,034 | N/A |
| INDIANA GAS | N/A | N/A | 8323 | N// | N/A | N/A | 8,323 | N/A |
| INDIANA NATURAL GAS CORP. | 100 | 200 | 30 | 39 | N/A | N/A | 130 | 239 |
| KOKOMO GAS & FUEL CO. | 134 | 150 | 302 | 180 | 27 | 45 | 409 | 285 |
| LAWRENCEBURG GAS CO. | 100 | 70 | 76 | 50 | N/A | N/A | 176 | 120 |
| MIDWEST NATURAL GAS CORP. | 72 | 75 | 121 | 125 | 32 | 30 | 161 | 170 |
| NORTHERN INDIANA FUEL & LIGHT | 379 | 450 | 294 | 280 | N/A | N/A | 673 | 730 |
| NORTHERN INDIANA PUBLIC SERVICE CO. | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| TOTAL INDIANA | 2,666 | 945 | 10,299 | 674 | 59 | 75 | 12,906 | 1,544 |
| MICHIGAN | | | | | | | | |
| BATTLE CREEK GAS COMPANY | 95 | 115 | 223 | 170 | 159 | N/A | 159 | 285 |
| CONSUMERS POWER CO. | 20,363 | 18,000 | 1,237 | 1,500 | N/A | N/A | 21,600 | 19,500 |
| MICHIGAN CONSOLIDATED GAS | 8,138 | 9,794 | 4,159 | 5,006 | 5,000 | 5,000 | 7,297 | 9,800 |
| MICHIGAN GAS CO. | 1,064 | 987 | 1,286 | 1,193 | 524 | 500 | 1,826 | 1,680 |
| MICHIGAN GAS UTILITIES CO. | 3,232 | 3,938 | 1,276 | 1,200 | 1,866 | 1,200 | 2,642 | 3,938 |
| TOTAL MICHIGAN | 32,892 | 32,834 | 8,181 | 9,069 | 7,549 | 6,700 | 33,524 | 35,203 |
| OHIO | | | | | | | | |
| CINCINNATI GAS & ELECTRIC | 4,483 | 4,000 | 1,321 | 900 | 200 | N/A | 5,604 | 4,900 |
| COLUMBIA GAS OF OHIO | 13,122 | 14,337 | 3,844 | 3,740 | 1,119 | 2,159 | 15,847 | 15,918 |
| DAYTON POWER & LIGHT | 2,565 | N/A | N/A | N/A | N/A | N/A | 2,565 | N/A |
| EAST OHIO GAS CO. | 7,265 | 7,000 | 3,238 | 3,750 | N/A | N/A | 10,503 | 10,750 |
| OHIO GAS CO. | 250 | 300 | 312 | 228 | 77 | 70 | 485 | 458 |
| WEST OHIO GAS CO. | 411 | 450 | 399 | 273 | 449 | 400 | 361 | 323 |
| TOTAL OHIO | 28,096 | 26,087 | 9,114 | 8,891 | 1,845 | 2,629 | 35,365 | 32,349 |
| WISCONSIN | | | | | | | | |
| MADISON GAS & ELECTRIC | 1,169 | 1,462 | 629 | 787 | N/A | N/A | 1,798 | 2,249 |
| WISCONSIN FUEL & LIGHT CO. | 515 | 523 | 204 | 207 | 0 | 0 | 719 | 730 |
| WISCONSIN GAS CO. | 1,541 | 1,550 | N/A | N/A | 1,706 | 2,050 | (165) | (500) |
| WISCONSIN NATURAL GAS CO. | 7,844 | 6,575 | 2,259 | 1,850 | 382 | 350 | 9,721 | 8,075 |
| WISCONSIN POWER & LIGHT CO. | 1,085 | 1,455 | 1,447 | 962 | N/A | N/A | 2,532 | 2,417 |
| WISCONSIN PUBLIC SERVICE | 1,900 | 1,900 | 1,842 | 1,900 | 25 | 25 | 3,717 | 3,775 |
| WISCONSIN SOUTHERN GAS CO. | 1,072 | 1,095 | 505 | 515 | 10 | 10 | 1,567 | 1,600 |
| TOTAL WISCONSIN | 15,126 | 14,560 | 6,886 | 6,221 | 2,123 | 2,435 | 19,889 | 18,346 |
| TOTAL EAST NORTH CENTRAL | 120,302 | 80,580 | 37,605 | 25,314 | 12,788 | 13,054 | 145,119 | 92,840 |
| WEST NORTH CENTRAL | | | | | | | | |
| IOWA | | | | | | | | |
| IOWA PUBLIC SERVICE CO. | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| IOWA-ILLINOIS GAS & ELECTRIC | 2,007 | 2,000 | 519 | 305 | 130 | 100 | 2,396 | 2,205 |
| PEOPLES NATURAL GAS (UTILICORP) | 761 | 780 | 2,348 | 2,407 | N/A | N/A | 3,109 | 3,187 |
| UNITED CITIES GAS CO. | 6 | 6 | 38 | 38 | N/A | N/A | 44 | 44 |
| TOTAL IOWA | 2,774 | 2,786 | 2,905 | 2,750 | 130 | 100 | 5,549 | 5,436 |
| KANSAS | | | | | | | | |
| ARKANSAS LOUISIANA GAS CO. | 4 | 4 | 304 | N/A | N/A | N/A | 308 | 4 |
| KPL GAS SERVICE | N/A | N/A | 4634 | 5000 | N/A | N/A | 4,634 | 5,000 |
| K N ENERGY, INC. | N/A | N/A | N/A | N/A | 33 | N/A | (33) | N/A |
| KANSAS PUBLIC SERVICE | 594 | 650 | 0 | 0 | 43 | 35 | 551 | 615 |
| MIDWEST ENERGY, INC. | 62 | 70 | 5 | 4 | 7 | 7 | 60 | 67 |
| PEOPLES NATURAL GAS (UTILICORP) | 343 | 352 | 55 | 56 | N/A | N/A | 398 | 408 |
| UNITED CITIES GAS CO. | 1,100 | 2,000 | 0 | 0 | 100 | 100 | 1,000 | 1,900 |
| TOTAL KANSAS | 2,103 | 3,076 | 4,998 | 5,060 | 183 | 142 | 6,918 | 7,994 |
| MINNESOTA | | | | | | | | |
| AUSTIN UTILITIES | 35 | 38 | N/A | N/A | 30 | 33 | 5 | 5 |
| CITY OF DULUTH | 150 | 200 | 620 | 630 | 50 | 50 | 720 | 780 |
| IOWA PUBLIC SERVICE CO. | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| MINNEGASCO, INC. | 5,269 | 5,600 | 1,802 | 1,670 | 324 | 330 | 6,747 | 6,940 |
| NORTHERN MINNESOTA UTILITIES | 200 | 300 | 734 | 1,071 | 20 | 20 | 914 | 1,351 |
| PEOPLES NATURAL GAS (UTILICORP) | 2,278 | 2,335 | 2,162 | 2,216 | N/A | N/A | 4,440 | 4,551 |
| TOTAL MINNESOTA | 7,932 | 8,473 | 5,318 | 5,587 | 424 | 433 | 12,826 | 13,627 |

## APPENDIX 2 -- ADDITIONS FROM NEW CONSTRUCTION AND CONVERSIONS

| DIVISION/STATE<br>COMPANY | ADDITIONS FROM NEW CONSTRUCTION 1991 | ADDITIONS FROM NEW CONSTRUCTION 1992 | TOTAL CONVERSIONS TO GAS 1991 | TOTAL CONVERSIONS TO GAS 1992 | LESS TOTAL LOSSES 1991 | LESS TOTAL LOSSES 1992 | NET ADDITIONS 1991 | NET ADDITIONS 1992 |
|---|---|---|---|---|---|---|---|---|
| MISSOURI | | | | | | | | |
| ASSOCIATED NATURAL GAS CO. | N/A | N/A | N/A | N/A | 560 | N/A | (560) | N/A |
| CITY OF SPRINGFIELD | 781 | N/A | N/A | N/A | N/A | N/A | 781 | N/A |
| KPL GAS SERVICE | N/A | N/A | 5,364 | 6,000 | N/A | N/A | 5,364 | 6,000 |
| LACLEDE GAS CO. | 4,331 | 4,500 | 743 | 900 | 1,348 | 1,400 | 3,726 | 4,000 |
| MISSOURI PUBLIC SERVICE | N/A | N/A | 150 | N/A | 67 | N/A | 83 | N/A |
| ST. JOSEPH LIGHT & POWER CO. | 30 | 25 | 21 | 20 | 2 | 2 | 49 | 43 |
| UNION ELECTRIC COMPANY | 275 | 280 | 120 | 120 | 170 | 170 | 225 | 230 |
| UNITED CITIES GAS CO. | 122 | 130 | 54 | 68 | N/A | N/A | 176 | 198 |
| TOTAL MISSOURI | 5,539 | 4,935 | 6,452 | 7,108 | 2,147 | 1,572 | 9,844 | 10,471 |
| NEBRASKA | | | | | | | | |
| HASTINGS UTILITIES | 28 | N/A | N/A | N/A | 10 | N/A | 18 | N/A |
| IOWA PUBLIC SERVICE CO. | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| K N ENERGY, INC. | N/A | N/A | N/A | N/A | 372 | N/A | (372) | N/A |
| METROPOLITAN UTILITIES DIST. | 2,077 | 2,000 | 429 | 500 | N/A | N/A | 2,506 | 2,500 |
| MINNEGASCO, INC. | 996 | 1,160 | 93 | 130 | 50 | 50 | 1,039 | 1,240 |
| NORTHWESTERN PUBLIC SERVICE | 260 | 275 | 0 | 0 | 0 | 50 | 260 | 225 |
| PEOPLES NATURAL GAS (UTILICORP) | 440 | 451 | 319 | 327 | N/A | N/A | 759 | 778 |
| TOTAL NEBRASKA | 3,801 | 3,886 | 841 | 957 | 432 | 100 | 4,210 | 4,743 |
| NORTH DAKOTA | | | | | | | | |
| MONTANA-DAKOTA UTILITIES CO. | 1,295 | 1,200 | 212 | 250 | 63 | 63 | 1,444 | 1,387 |
| TOTAL NORTH DAKOTA | 1,295 | 1,200 | 212 | 250 | 63 | 63 | 1,444 | 1,387 |
| SOUTH DAKOTA | | | | | | | | |
| IOWA PUBLIC SERVICE CO. | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| MINNEGASCO, INC. | 591 | 665 | 192 | 150 | N/A | N/A | 783 | 815 |
| MONTANA-DAKOTA UTILITIES CO. | 570 | 600 | 737 | 725 | 26 | 27 | 1,281 | 1,298 |
| NORTHWESTERN PUBLIC SERVICE | 650 | 750 | N/A | N/A | 0 | N/A | 650 | 750 |
| TOTAL SOUTH DAKOTA | 1,811 | 2,015 | 929 | 875 | 26 | 27 | 2,714 | 2,863 |
| TOTAL WEST NORTH CENTRAL | 25,255 | 26,371 | 21,655 | 22,587 | 3,405 | 2,437 | 43,505 | 46,521 |
| SOUTH ATLANTIC | | | | | | | | |
| DELAWARE | | | | | | | | |
| CHESAPEAKE UTILITIES CORP. | 631 | N/A | 156 | N/A | 12 | N/A | 775 | N/A |
| DELMARVA POWER & LIGHT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| TOTAL DELAWARE | 631 | N/A | 156 | N/A | 12 | N/A | 775 | N/A |
| DISTRICT OF COLUMBIA | | | | | | | | |
| WASHINGTON GAS LIGHT CO. | * | * | * | * | * | * | * | * |
| TOTAL DISTRICT OF COLUMBIA | * | * | * | * | * | * | * | * |
| FLORIDA | | | | | | | | |
| PEOPLES GAS SYSTEM, INC. | 472 | 525 | 4,905 | 4,625 | 1,700 | 1,550 | 3,677 | 3,600 |
| TOTAL FLORIDA | 472 | 525 | 4,905 | 4,625 | 1,700 | 1,550 | 3,677 | 3,600 |
| GEORGIA | | | | | | | | |
| ATLANTA GAS LIGHT COMPANY | 19,431 | 26,950 | 4,699 | 5,639 | N/A | N/A | 24,130 | 32,589 |
| UNITED CITIES GAS CO. | 569 | 575 | 56 | 59 | N/A | N/A | 625 | 634 |
| TOTAL GEORGIA | 20,000 | 27,525 | 4,755 | 5,698 | N/A | N/A | 24,755 | 33,223 |
| MARYLAND | | | | | | | | |
| BALTIMORE GAS & ELECTRIC | 2,118 | 2,389 | 2,969 | 2,000 | 1,414 | 1,500 | 3,673 | 2,889 |
| CHESAPEAKE UTILITIES CORP. | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| COLUMBIA GAS OF MD | 230 | 393 | 150 | 102 | 203 | 42 | 177 | 453 |
| WASHINGTON GAS LIGHT CO. | * | * | * | * | * | * | * | * |
| TOTAL MARYLAND | 2,348 | 2,782 | 3,119 | 2,102 | 1,617 | 1,542 | 3,850 | 3,342 |
| NORTH CAROLINA | | | | | | | | |
| CITY OF WILSON | 98 | 116 | 164 | 181 | N/A | N/A | 262 | 297 |
| NORTH CAROLINA NATURAL GAS | 1,150 | 1,100 | 3,210 | 3,500 | 100 | 100 | 4,260 | 4,500 |
| PIEDMONT NATURAL GAS CO. | 5,973 | 5,260 | 7,389 | 7,845 | 6,975 | N/A | 6,387 | 13,105 |
| PUBLIC SERVICE OF NC | 5,900 | 6,200 | 6,340 | 6,205 | 1,135 | 1,110 | 11,105 | 11,295 |
| TOTAL NORTH CAROLINA | 13,121 | 12,676 | 17,103 | 17,731 | 8,210 | 1,210 | 22,014 | 29,197 |
| SOUTH CAROLINA | | | | | | | | |
| PIEDMONT NATURAL GAS CO. | 1,357 | 1,190 | 2,325 | 2,505 | 2,031 | N/A | 1,651 | 3,695 |
| SOUTH CAROLINA ELECTRIC & GAS | 1,530 | N/A | 1184 | N/A | N/A | N/A | 2,714 | N/A |
| UNITED CITIES GAS CO. | 75 | 75 | 90 | 100 | N/A | N/A | 165 | 175 |
| TOTAL SOUTH CAROLINA | 2,962 | 1,265 | 3,599 | 2,605 | 2,031 | N/A | 4,530 | 3,870 |
| VIRGINIA | | | | | | | | |
| CITY OF CHARLOTTESVILLE | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| CITY OF DANVILLE | 200 | 200 | 0 | 0 | 16 | N/A | 184 | 200 |
| COMMONWEALTH GAS SERVICES | 3,351 | 3,810 | 1,137 | 1,270 | 280 | 277 | 4,208 | 4,803 |

## APPENDIX 2 -- ADDITIONS FROM NEW CONSTRUCTION AND CONVERSIONS

| DIVISION/STATE | ADDITIONS FROM NEW CONSTRUCTION | | TOTAL CONVERSIONS TO GAS | | LESS TOTAL LOSSES | | NET ADDITIONS | |
|---|---|---|---|---|---|---|---|---|
| COMPANY | 1991 | 1992 | 1991 | 1992 | 1991 | 1992 | 1991 | 1992 |
| ROANOKE GAS COMPANY | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| UNITED CITIES GAS CO. | 531 | N/A | 492 | 561 | N/A | N/A | 1,023 | 561 |
| VIRGINIA NATURAL GAS | 2,345 | 2,900 | 2,450 | 2,900 | 140 | 0 | 4,655 | 5,800 |
| WASHINGTON GAS LIGHT CO. | * | * | * | * | * | * | * | * |
| TOTAL VIRGINIA | 6,427 | 6,910 | 4,079 | 4,731 | 436 | 277 | 10,070 | 11,364 |
| WEST VIRGINIA | | | | | | | | |
| HOPE GAS CO. | 599 | 650 | 91 | 100 | 67 | 67 | 623 | 683 |
| MOUNTAINEER GAS CO. | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| TOTAL WEST VIRGINIA | 599 | 650 | 91 | 100 | 67 | 67 | 623 | 683 |
| TOTAL SOUTH ATLANTIC | 46,560 | 52,333 | 37,807 | 37,592 | 14,073 | 4,646 | 70,294 | 85,279 |
| EAST SOUTH CENTRAL | | | | | | | | |
| ALABAMA | | | | | | | | |
| ALABAMA GAS CORP. | 3,815 | 3,800 | 1,423 | 1,300 | 700 | 700 | 4,538 | 4,400 |
| CITY OF FLORENCE | 197 | 200 | 452 | 420 | 43 | 45 | 606 | 575 |
| DECATUR UTILITIES | 206 | 100 | 400 | 288 | 12 | 12 | 594 | 376 |
| HUNTSVILLE UTILITIES GAS DEPT. | 320 | 400 | 416 | 450 | 81 | 47 | 655 | 803 |
| TOTAL ALABAMA | 4,538 | 4,500 | 2,691 | 2,458 | 836 | 804 | 6,393 | 6,154 |
| KENTUCKY | | | | | | | | |
| COLUMBIA GAS OF KY | 1,650 | 1,646 | 277 | 412 | 290 | 537 | 1,637 | 1,521 |
| LOUISVILLE GAS & ELECTRIC | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| UNION LIGHT, HEAT & POWER | 864 | 800 | 300 | 270 | N/A | N/A | 1,164 | 1,070 |
| WESTERN KENTUCKY GAS CO. | 1,332 | 1,300 | 925 | 850 | 40 | 40 | 2,217 | 2,110 |
| TOTAL KENTUCKY | 3,846 | 3,746 | 1,502 | 1,532 | 330 | 577 | 5,018 | 4,701 |
| MISSISSIPPI | | | | | | | | |
| ENTEX, INC. | 1,079 | 1,000 | 669 | 500 | 448 | 525 | 1,300 | 975 |
| MISSISSIPPI VALLEY GAS CO. | 1,999 | 2,000 | 1,040 | 1,050 | 1,206 | 1,100 | 1,833 | 1,950 |
| TOTAL MISSISSIPPI | 3,078 | 3,000 | 1,709 | 1,550 | 1,654 | 1,625 | 3,133 | 2,925 |
| TENNESSEE | | | | | | | | |
| KNOXVILLE UTILITIES BOARD | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| MIDDLE TENNESSEE NATURAL GAS | 900 | 900 | 1,803 | 1,320 | 60 | 60 | 2,643 | 2,160 |
| NASHVILLE GAS CO. | 1,542 | 1,650 | 2,503 | 2,630 | N/A | N/A | 4,045 | 4,280 |
| MEMPHIS LIGHT, GAS & WATER | 2,963 | 3,500 | N/A | N/A | N/A | N/A | 2,963 | 3,500 |
| UNITED CITIES GAS CO. | 3,500 | 3,535 | 2,040 | 2,062 | N/A | N/A | 5,540 | 5,597 |
| TOTAL TENNESSEE | 8,905 | 9,585 | 6,346 | 6,012 | 60 | 60 | 15,191 | 15,537 |
| TOTAL EAST SOUTH CENTRAL | 20,367 | 20,831 | 12,248 | 11,552 | 2,880 | 3,066 | 29,735 | 29,317 |
| WEST SOUTH CENTRAL | | | | | | | | |
| ARKANSAS | | | | | | | | |
| ARKANSAS LOUISIANA GAS CO. | 1,290 | 1,303 | N/A | N/A | N/A | N/A | 1,290 | 1,303 |
| ARKANSAS WESTERN GAS CO. | 2,000 | 2,400 | N/A | N/A | N/A | N/A | 2,000 | 2,400 |
| ASSOCIATED NATURAL GAS CO. | N/A | N/A | N/A | N/A | 279 | N/A | (279) | N/A |
| TOTAL ARKANSAS | 3,290 | 3,703 | N/A | N/A | 279 | N/A | 3,011 | 3,703 |
| LOUISIANA | | | | | | | | |
| ARKANSAS LOUISIANA GAS CO. | 377 | 381 | 122 | N/A | N/A | N/A | 499 | 381 |
| ENTEX, INC. | 534 | 493 | 375 | 336 | 520 | 620 | 389 | 209 |
| LOUISIANA GAS SERVICE CO. | N/A | N/A | 25 | 100 | 0 | 0 | 25 | 100 |
| NEW ORLEANS PUBLIC SERVICE | 40 | 40 | N/A | N/A | 30 | 15 | 10 | 25 |
| SOUTH COAST GAS CO. | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| TRANS LOUISIANA GAS CO. | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| TOTAL LOUISIANA | 951 | 914 | 522 | 436 | 550 | 635 | 923 | 715 |
| OKLAHOMA | | | | | | | | |
| ARKANSAS LOUISIANA GAS CO. | 97 | 98 | 197 | 200 | N/A | N/A | 294 | 298 |
| KPL GAS SERVICE | N/A | N/A | 562 | N/A | N/A | N/A | 562 | N/A |
| OKLAHOMA NATURAL GAS CO. | 5,303 | 6,420 | 2,676 | 4,000 | 1,300 | 1,100 | 6,679 | 9,320 |
| TOTAL OKLAHOMA | 5,400 | 6,518 | 3,435 | 4,200 | 1,300 | 1,100 | 7,535 | 9,618 |
| TEXAS | | | | | | | | |
| ARKANSAS LOUISIANA GAS CO. | 192 | 194 | N/A | N/A | 487 | N/A | (295) | 194 |
| CITY PUBLIC SERVICE | 0 | 0 | 0 | 0 | 2,115 | 1,663 | (2,115) | (1,663) |
| ENTEX, INC. | 14,996 | 16,892 | 1,625 | 1,702 | 578 | 484 | 16,043 | 18,110 |
| LONE STAR GAS CO. | 17,013 | 17,500 | 101 | 100 | 4,522 | 4,618 | 12,592 | 12,982 |
| TOTAL TEXAS | 32,201 | 34,586 | 1,726 | 1,802 | 7,702 | 6,765 | 26,225 | 29,623 |
| TOTAL WEST SOUTH CENTRAL | 41,842 | 45,721 | 5,683 | 6,438 | 9,831 | 8,500 | 37,694 | 43,659 |

## APPENDIX 2 -- ADDITIONS FROM NEW CONSTRUCTION AND CONVERSIONS

| DIVISION/STATE<br>COMPANY | ADDITIONS FROM NEW CONSTRUCTION<br>1991 | <br>1992 | TOTAL CONVERSIONS TO GAS<br>1991 | <br>1992 | LESS TOTAL LOSSES<br>1991 | <br>1992 | NET ADDITIONS<br>1991 | <br>1992 |
|---|---|---|---|---|---|---|---|---|
| **MOUNTAIN** | | | | | | | | |
| ARIZONA | | | | | | | | |
| CITIZENS UTILITIES CO. | 46 | 50 | 35 | 75 | 3 | 5 | 78 | 120 |
| SOUTHWEST GAS CO.- PHOENIX | 4,156 | 4,000 | 1,729 | 1,000 | 700 | 750 | 5,185 | 4,250 |
| SOUTHWEST GAS CO.- TUCSON | 3,520 | 3,500 | 513 | 1,000 | 0 | 0 | 4,033 | 4,500 |
| TOTAL ARIZONA | 7,722 | 7,550 | 2,277 | 2,075 | 703 | 755 | 9,296 | 8,870 |
| COLORADO | | | | | | | | |
| CITY OF COLORADO SPRINGS | 1,313 | 1,400 | N/A | N/A | N/A | N/A | 1,313 | 1,400 |
| K N ENERGY, INC. | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| PEOPLES NATURAL GAS (UTILITICORP) | 556 | 570 | 491 | 503 | N/A | N/A | 1,047 | 1,073 |
| PUBLIC SERVICE OF COLORADO | N/A | N/A | 1,201 | 1,265 | N/A | N/A | 1,201 | 1,265 |
| TOTAL COLORADO | 1,869 | 1,970 | 1,692 | 1,768 | N/A | N/A | 3,561 | 3,738 |
| IDAHO | | | | | | | | |
| INTERMOUNTAIN GAS CO. | 2,620 | N/A | 2,664 | N/A | N/A | N/A | 5,284 | N/A |
| WASHINGTON WATER POWER | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| TOTAL IDAHO | 2,620 | N/A | 2,664 | N/A | N/A | N/A | 5,284 | N/A |
| MONTANA | | | | | | | | |
| MONTANA-DAKOTA UTILITIES CO. | 763 | 770 | 230 | 300 | 53 | 53 | 940 | 1,017 |
| TOTAL MONTANA | 763 | 770 | 230 | 300 | 53 | 53 | 940 | 1,017 |
| NEVADA | | | | | | | | |
| SIERRA PACIFIC POWER COMPANY | 1,816 | 2,275 | 600 | 1,200 | 0 | 0 | 2,416 | 3,475 |
| SOUTHWEST GAS CORP.- LAS VEGAS | 25,461 | 7,150 | 505 | 550 | 50 | 50 | 25,916 | 7,650 |
| SOUTHWEST GAS CORP.- CARSON CITY | 2,340 | 2,501 | 1,124 | 600 | 10 | 10 | 3,454 | 3,091 |
| TOTAL NEVADA | 29,617 | 11,926 | 2,229 | 2,350 | 60 | 60 | 31,786 | 14,216 |
| NEW MEXICO | | | | | | | | |
| GAS COMPANY OF NEW MEXICO | 3,473 | 3,543 | 2,075 | 2,116 | 49 | 36 | 5,499 | 5,623 |
| TOTAL NEW MEXICO | 3,473 | 3,543 | 2,075 | 2,116 | 49 | 36 | 5,499 | 5,623 |
| UTAH | | | | | | | | |
| MOUNTAIN FUEL SUPPLY CO. | 9,823 | 11,910 | 1,188 | N/A | 733 | N/A | 10,278 | 11,910 |
| TOTAL UTAH | 9,823 | 11,910 | 1,188 | N/A | 733 | N/A | 10,278 | 11,910 |
| WYOMING | | | | | | | | |
| K N ENERGY, INC. | N/A | N/A | 7 | N/A | N/A | N/A | 7 | N/A |
| MONTANA-DAKOTA UTILITIES CO. | 189 | 200 | 19 | 30 | 10 | 10 | 198 | 220 |
| MOUNTAIN FUEL SUPPLY CO. | 201 | 250 | N/A | N/A | 54 | N/A | 147 | 250 |
| WYOMING GAS CO. | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| TOTAL WYOMING | 390 | 450 | 26 | 30 | 64 | 10 | 352 | 470 |
| TOTAL MOUNTAIN | 56,277 | 38,119 | 12,381 | 8,639 | 1,662 | 914 | 66,996 | 45,844 |
| **PACIFIC** | | | | | | | | |
| CALIFORNIA | | | | | | | | |
| PACIFIC GAS AND ELECTRIC | 130,000 | 140,000 | N/A | N/A | 52,000 | 55,000 | 78,000 | 85,000 |
| SAN DIEGO GAS & ELECTRIC | 8,274 | 9,268 | N/A | N/A | N/A | N/A | 8,274 | 9,268 |
| SOUTHERN CALIFORNIA GAS CO. | 75,818 | N/A | 17,097 | N/A | 11,396 | N/A | 81,519 | N/A |
| SOUTHWEST GAS CORP. | 2,458 | 1,868 | 260 | 240 | 6 | 5 | 2,712 | 2,103 |
| TOTAL CALIFORNIA | 216,550 | 151,136 | 17,357 | 240 | 63,402 | 55,005 | 170,505 | 96,371 |
| OREGON | | | | | | | | |
| NORTHWEST NATURAL GAS CO. | 5,509 | 6,515 | 11,538 | 12,334 | 842 | 795 | 16,205 | 18,054 |
| TOTAL OREGON | 5,509 | 6,515 | 11,538 | 12,334 | 842 | 795 | 16,205 | 18,054 |
| WASHINGTON | | | | | | | | |
| NORTHWEST NATURAL GAS CO. | 1,114 | 985 | 339 | 363 | 8 | 5 | 1,445 | 1,343 |
| WASHINGTON NATURAL GAS CO. | 7,859 | 9,000 | 17,581 | 19,246 | 7,719 | 160 | 17,721 | 28,086 |
| WASHINGTON WATER POWER | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| TOTAL WASHINGTON | 8,973 | 9,985 | 17,920 | 19,609 | 7,727 | 165 | 19,166 | 29,429 |
| TOTAL PACIFIC | 231,032 | 167,636 | 46,815 | 32,183 | 71,971 | 55,965 | 205,876 | 143,854 |
| TOTAL UNITED STATES | 589,288 | 478,066 | 260,727 | 217,607 | 125,593 | 95,761 | 724,422 | 599,912 |

* INDIVIDUAL COMPANY DATA WITHHELD.

## Appendix 3

### Census Regions, Divisions and Corresponding States

**NORTHEAST**

New England
- Connecticut
- Maine
- Massachusetts
- New Hampshire
- Rhode Island
- Vermont

Middle Atlantic
- New Jersey
- New York
- Pennsylvania

**MIDWEST**

East North Central
- Illinois
- Indiana
- Michigan
- Ohio
- Wisconsin

West North Central
- Iowa
- Kansas
- Minnesota
- Missouri
- Nebraska
- North Dakota
- South Dakota

**SOUTH**

South Atlantic
- Delaware
- District of Columbia
- Florida
- Georgia
- Maryland
- North Carolina
- South Carolina
- Virginia
- West Virginia

East South Central
- Alabama
- Kentucky
- Mississippi
- Tennessee

West South Central
- Arkansas
- Louisiana
- Oklahoma
- Texas

**WEST**

Mountain
- Arizona
- Colorado
- Idaho
- Montana
- Nevada
- New Mexico
- Utah
- Wyoming

Pacific
- Alaska
- California
- Hawaii
- Oregon
- Washington

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